



July 30, 2008

OVERNIGHT COURIER

Ms. Donna McCartney (3WC23)
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

**Re: Progress Report for January through March 2008
Delaware City Plant RCRA Corrective Action Program**

Dear Ms. McCartney:

This progress report describes the work completed pertaining to the RCRA Corrective Action (CA) Program at the Delaware City Plant during the months of January through March 2008 and anticipated work during the months of April through June 2008.

The Plant is currently undergoing decommissioning and demolition. These activities will continue through 2008 and into 2009.

Schedule

Figure 1 provides an updated Schedule for the RCRA CA project and the SWMUs/AOCs where additional work is being performed to achieve final remedies.

The following presents a list of correspondence during January through March 2008.

DATE	DESCRIPTION	TYPE	FROM	TOPIC
January 3, 2008	EPA review findings for proposed cleanup level for CBs	Email	EPA	EPA comments regarding the total chlorobenzenes cleanup criterion
January 4, 2008	EPA comments - Feedback RLC Memo and March-April 2007 PMP report	Email	EPA	EPA comments for RLC memo (bat and swallow risk) and PMP report
January 8, 2008	Response to EPA comments regarding the proposed cleanup level for CBs	Email	CRA	Response to EPA comments regarding the total chlorobenzenes cleanup criterion
January 23, 2008	DRAFT- NFA SWMUs		CRA	Select sections of CMS Report where no further action is required
January 25, 2008	Additional Data Collection Report	Report	CRA	Presenting Data to support CMS
January 29, 2008	DRAFT- AOC 10 CMS Section		CRA	AOC 10 Section of CMS Report
March 14, 2008	USEPA Comment Letter on HHRA	Comment letter	EPA	HHRA Report

1.0 Work Completed

1.1 Corrective Measures Study (CMS)

During the months of January through March 2008, GSHI continued preparation of the CMS report. Table 1 provides a list of the Solid Waste Management Units (SWMU) and Areas of Concern (AOC), and their current status as of this progress report. In general, the CMS will include a section for each SWMU/AOC that summarizes history/operations, summarizes available data and screens the data to approved screening criteria, and evaluates the SWMU/AOC based on cleanup criteria. If a remedy is required, the SWMU/AOC section will also evaluate potential remedies based on the RCRA evaluation process and describe the recommended remedy. A section describing the Plant closing and decommissioning will be included in the CMS.

GSHI focused their initial efforts on the 10 SWMUs, which are located within the Plant Process Area and characterized as “No Further Action”. The Draft CMS sections for these SWMUs were submitted to EPA on January 23, 2008. On January 29, 2008, GSHI submitted to EPA a Draft CMS section for the Former Lay Down Area (AOC 10). This Draft section is considered a template that will be followed in the preparation of the CMS sections for most of the other SWMUs and AOCs.

1.2 Human Health Risk Assessment (HHRA)

On October 19, 2007, GSHI received a first set of comments from EPA regarding the draft Human Health Risk Assessment (HHRA) report dated April 20, 2007. GSHI responses to EPA’s initial comments were submitted to EPA on December 12, 2007. Following GSHI’s initial response to comments, EPA has subsequently issued a second set of comments on March 14, 2008. In April 2008, GSHI submitted responses to the EPA’s March 14th comments.

1.3 Ecological Risk Assessment (ERA)

An Ecological Risk Assessment (ERA) is being prepared for submittal to EPA. In early 2007 additional worm and soil sampling was completed at WL-2. These results were summarized in a September 2007 memorandum entitled “Results of Resampling at WL-2 and Update of Risk to Worm-Eating Wildlife”. In summary, the conclusions presented within this memorandum describe that the ecological risk to worm-eating predators was not of concern. On December 7, 2007, GSHI received comments from EPA on this memorandum. GSHI is currently preparing responses to these comments and is preparing for additional sampling to address these issues.

1.4 Draft Groundwater Focused Feasibility Study (FFS)

On June 7, 2007, GSHI submitted to EPA a Groundwater Focused Feasibility Study (FFS) for SWMUs/AOCs that may require final groundwater remedies. The FFS includes groundwater in the vicinity of the Waste Lake 1 barrier wall (Area 7), groundwater in the vicinity of the Process Area barrier wall (Area 9), and the Free-Phase DNAPL (Area 13). EPA provided comments regarding the Groundwater FFS on April 18, 2008. GSHI is currently preparing responses to these comments.

1.5 Additional Data Collection

In May and June 2007, GSHI collected additional data at several areas that were identified as requiring additional sampling and analysis in order to make a final remedy decision. These

SWMUs/AOCs include the Stormwater Drainage Pond and Outfall 003 (SWMU 6), the area north of the SC Pipeline (AOC 12), overland flow (runoff) pathways (AOC 14), the Former Lay Down Area (AOC 10), and the ChemFix Test Unit Area (SWMU 12). Following collection of these samples and receipt of the laboratory results, GSHI completed the relevant CMS sections related to these SWMUs/AOCs in a report entitled "*Additional Data Collection Report*". This report presents the methodologies and results of this sampling program. The report was submitted to EPA on January 24, 2008. In April 2008, GSHI submitted a separate report presenting the results of the investigation of AOC 12.

1.6 Groundwater

Performance Monitoring Program (PMP)

A Performance Monitoring Program (PMP) is implemented to monitor groundwater conditions at the Site. The PMP was initiated following construction of barrier walls and groundwater extraction at Waste Lake 1 and the Process Area in 2003. The 2007 PMP is based on the sampling program proposed in the 2006 PMP Report dated March 2007, review of EPA's September 30, 2006 comments regarding the 2006 PMP Report, and responses to EPA's comments previously transmitted to EPA on November 30, 2006 (see letter dated March 5, 2007). GSHI is currently preparing the annual PMP report. The 2008 PMP report (reflecting 2007 data) will consider and incorporate any necessary changes as outlined in the EPA's January 7, 2008 comments (email from D. McCartney). The comments were based upon EPA's review of the April 2007 PMP report.

Groundwater Flow

Water levels were collected in Site monitoring wells to assess the impacts of the barrier wall construction on groundwater flow patterns. Attachment A provides potentiometric surface maps for the Water Table and Potomac A Sands for February and March 2008. No water level data were collected for January 2008. Note that water levels will be measured monthly for the remainder of 2008.

Evaluation of the water table data shows that:

- At the Process Area, there is an inward gradient along the east, south, and west portion of the barrier wall. There is an outward gradient along the north portion of the barrier wall.
- At Waste Lake 1, there is an inward gradient around the south and east portions of the wall, with an outward gradient along the northwest portion.
- Minimal change in the water table elevation (~0 to 1 foot increase) has occurred in the north-south trending Columbia Paleochannel between the Process Area and Waste Lake 1 barrier walls.

Evaluation of the Potomac A Sands data shows that:

- At Waste Lake 1 (where the Potomac A Sands are present), there is an inward gradient around the south and east portions of the wall, with an outward gradient along the northwest portion.

The table below presents the average head difference (for February and March 2008) at the well pairs located around the Process Area barrier. Figure A.5 presents the hydraulic head difference across the barrier graphically. The area where hydraulic gradients are outward is highlighted in yellow. The figure also presents two curves, one for each month when water levels were measured during the first quarter of 2008. There was very little temporal change in the gradients across the barrier.

Hydraulic Zone	Outside Well	Average 1st Qtr Elev. (ft msl)	Inside Well	Average 1st Qtr Elev. (ft msl)	Difference (ft)
Water Table	A-36D	11.58	A-48	6.74	4.84
Water Table	A-45	6.24	A-51	6.51	-0.27
Water Table	A-50	3.93	A-40D	6.38	-2.45
Water Table	A-49	4.93	A-35D	6.59	-1.66
Water Table	A-46	9.41	A-53	7.06	2.35

Notes:

- A positive 'Difference' indicates an inward gradient; a negative difference an outward gradient.

In summary, the Process Area barrier wall is performing as expected, and the 1st Quarter 2008 data are consistent with historical data collected since construction of the barrier walls.

The table below presents the average head difference (for February and March 2008) around the WL-1 barrier. Figures A.6 and A.7 present the hydraulic head difference across the barrier graphically for February 2008 and March 2008 respectively. The areas where hydraulic gradients are outward are highlighted in yellow on the figures. The figures also present curves of the gradients along the barrier. There was very little temporal change in the gradients across the barrier.

Hydraulic Zone	Outside Well	Average 1st Qtr Elev. (ft msl)	Average 1st Qtr Inside Elev. (ft msl)	Difference (ft)
Water Table	R-112	6.02	4.12	1.90
Water Table	A-25D	4.25	4.12	0.13
Water Table	A-37S	1.85	4.12	-2.27
Water Table	A-47	6.97	4.12	2.85
Water Table	R-110	7.69	4.12	3.57
Water Table	A-39D	6.90	4.12	2.78

Notes:

- A positive 'Difference' indicates an inward gradient; a negative difference an outward gradient.

In summary, the WL-1 Area barrier wall is performing as expected, and the 1st Quarter 2008 data are consistent with historical data collected since construction of the barrier walls.

Analytical Results

Analytical results for the February 2008 (1st Quarter) round of groundwater sampling for the PMP are provided in Attachment B. The results are screened to the applicable screening criteria. The data validation package for the sampling event is also included in Attachment B. The following wells

were sampled and analyzed for total and dissolved mercury: A-27D, A-27S, A-44, A-49, A-50, A-66D, A-66S, A-67D, A-67S. The following wells were sampled and analyzed for volatile organic compounds (VOCs), total and dissolved mercury, total and dissolved metals: A-65, A-69, A-70, A-71, A-75 and A-77. Laboratory analyses were completed at H2M Laboratories in Mellville, New York. Field parameters were measured for all wells sampled during this event. Field parameter data sheets are included in Attachment B.

As part of the February PMP sampling event, GSHI also completed surface water sampling at the Tributary (Stations G through N). Each of these samples was analyzed for total and dissolved mercury and Target Compound List (TCL) VOCs. Attachment B presents this data, screened to the USEPA surface water quality criteria.

Attachment B also presents groundwater analytical data associated with the ongoing monthly sampling of A-35D, A-35S, and A-49. Wells A-35D and A-35S are located inside the Process Area Barrier Wall along the north side, while well A-49 is located outside the barrier wall adjacent to the A-35D well pair. This sampling program was initiated due to the elevated total and dissolved mercury results detected in groundwater at monitoring well A-35D during the August 2007 PMP sampling event (57,800 ug/L and 73,300 ug/L for total and dissolved respectively). The dissolved mercury results for A-35D for January, February 2008 were 25,800 and 46,700, respectively. The wells were not sampled in March 2008. Monthly sampling of well A-35D will continue in order to monitor mercury concentrations in this well and surrounding wells. This is an expected outcome of pumping within the barrier wall. The elevated monitoring is intended to gain a further basis for Mass Flux along the barrier wall.

Groundwater Treatment System Operations

The groundwater treatment system (GWTS) was operated during the months of January through March 2008. Attachment C includes the GWTS daily logs, details regarding the volume of water pumped each day, notes regarding operations, and analytical results for the treatment system samples collected during the months of January through March 2008. Groundwater is pumped from within the Process Area barrier wall (Collection Trench) and WL-1 barrier wall (Water Table Extraction Well EW-1) and treated via two carbon beds. The treated water then flows into the Plant's existing wastewater treatment plant (WWTP) where it undergoes additional treatment. Each of the samples discussed relates to monitoring prior to entering the Plant's WWTP. Following treatment, the water is discharged to the Delaware River under a revised NPDES permit effective March 1, 2007 (NPDES Permit No. DE 0050911).

As per the GWTS O&M Manual, carbon change outs to the system lead bed and/or carbon interbeds are required when analytical testing indicates exceedances to the SWRS for the Carbon-Interbed or System Effluent samples. Due to the VOC exceedances for the Carbon-Interbed sample (March 6, 2008), a carbon changeout was completed on March 12, 2008.

The 1st Quarter 2008 Collection-Trench, Carbon-Influent, Carbon-Interbed and System-Effluent analytical sample results were screened to the Surface Water Risk Screening Criteria (SWRS). GWTS results are presented in Attachment C. The Carbon-Interbed sample (March 6, 2008) resulted in exceedances for chlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, benzene, chloroform, and vinyl chloride. Vinyl chloride exceedances were recorded in all of the Carbon-Interbed samples collected in February. None of the Carbon-Interbed sample results exceeded the SWRS for mercury. One System-Effluent sample (February 8, 2008) resulted in exceedances for total selenium, and total and dissolved cobalt, manganese, silver and thallium. None of the System-Effluent samples analyzed for mercury exceeded the SWRS screening criteria or average monthly or maximum daily NPDES Permit criteria.

Pumping at the Collection Trench ranged from 0.00 to 22 gpm with an average rate of 5.5 gpm. Pumping at the Water Table Extraction Well (EW-1) at WL-1 ranged from 0.0 to 3.0 gpm with an average of 1.4 gpm. As agreed to with EPA, the Potomac Extraction Well (EW-2) at WL-1 was not pumped (see WL-1 Groundwater section). The extraction rates are consistent with previous operational rates. Well EW-1 was not in operation during the GWTS shutdown in March,

The GWTS was shut down from March 7 to April 3, 2008 due to a leak in Carbon Bed A. Concurrent with this shutdown was the switch to a new control system affecting the totalizer data. Therefore, there was no pumping from the Collection Trench or Water Table Extraction Well (EW-1) during the aforementioned dates. Filter change out and observation documentation is included in Attachment C as the GWTS Daily Log Sheets.

DATE	DESCRIPTION
March 5, 2008	Shutdown for leak at discharge piping on GWTS building west wall
March 7, 2008	Shutdown for leak in Carbon Bed A tank and switch to new Honeywell control system
March 12, 2008	Carbon changeout at Carbon Bed A
April 3, 2008	System Restart

As will be documented in the 2007 PMP report, minor changes are recommended to the current extraction and treatment system operations for 2008. Specifically, GSHI proposes to pump the Collection Trench and extraction well EW-1 at their maximum rates. This maximum pumping will be initiated in April 2008. Preliminary data indicate that pumping from the Collection Trench may be sustainable at approximately 20 gpm, compared to a 5.9 gpm average in 2007; and EW-1 may be sustainable at 3 GPM, approximately double the 2007 average rate of 1.6 gpm.

1.7 Waste Lake 1

Waste Lake 1 Cap

Attachment D provides the completed Waste Lake 1 Cap inspection form conducted on March 31, 2008. This inspection is completed to ensure that the integrity of the cap is maintained. No major issues were identified during the inspection.

DNAPL Measurements and Recovery

During January through March 2008, field activities were performed at the DNAPL area located northwest of Waste Lake 1. These activities included monitoring for the presence of DNAPL and measurement of DNAPL thickness in each of the monitoring wells in the DNAPL area. DNAPL was pumped from the monitoring wells when adequate volume was present. The DNAPL was containerized in a drum with an over-pack. The drum was staged on-site in a secure area for proper disposal.

DNAPL recovery for the 1st Quarter 2008 totaled 39 gallons (359 lbs.). The total DNAPL recovered to date from the DNAPL area is 941 gallons (8,681 lbs.) since free-phase recovery was initiated on May 21, 2004. Attachment E provides data summarizing the DNAPL thickness measurements and DNAPL recovery. On February 15, 2008, approximately 1 gallon of DNAPL was drained from the cone-shaped DNAPL Collection Tank in the GWTS plant.

WL-1 Groundwater

Based on the 2006 WL-1 pumping test, GSHI recommended pumping extraction well, EW-1, in the Water Table, and shutting down extraction well EW-2, in the Potomac A Sands. EW-1 is to be operated to maintain a zero or upward gradient between the Potomac A Sands to the Water Table. The EPA has agreed with this approach and requested that water levels be monitored in four wells using electronic level recorders: the three wells inside the WL-1 barrier (Water Table wells A-55 and A-57, and Potomac A Sands well A-54), and one well outside the barrier (Potomac A Sands well A-78). Continuous water level recorders had previously been maintained in A-55 and A-78. GSHI installed recorders in A-54 and A-57 in April 2007.

Figure 1 in Attachment F provides a summary of the data for WL-1, including:

- Hydrographs for water level recorder data from A-54, A-55, A-57, and A-78; and
- Pumping rates from EW-1.

Previous data has shown that the desired upward gradient from the Potomac A Sands to the Water Table can be maintained within WL-1 when well EW-1 is pumped continuously at 2.5 gpm or more. The gradient is monitored between Water Table well A-57 and Potomac A Sands well A-54. Gradient reversal was not maintained at the end of the previous quarter due to operational issues. During January and February 2008 pumping from EW-1 was more continuous such that gradient reversal was achieved at the end of February. Gradient reversal was not maintained during the month of March due to the GWTS operational issues discussed previously.

1.8 Routine Inspections

Attachment G presents the cap inspection forms for WL-3, the OBSL, and Stormwater Drainage Channels. In addition, Attachment G presents monthly inspections for the Former Lay Down Area were conducted. On March 31, 2008, the following observations were made during inspections:

- WL-3 had wind blown debris on the cap.
- OBSL grass was thin or absent from some areas, re-seeding was scheduled. Wind blown debris was observed on the cap.
- Debris was removed from the Stormwater Drainage Channels and oil booms were replaced.

There were no issues with the silt fence at the Former Lay Down area during January through March 2008.

1.9 New Brine Sludge Landfill (NBSL)

Attachment H presents the NBSL Post-Closure Inspection reports. During the period of January through March 2008 no leachate was pumped from the NBSL sump.

1.10 Plant Activities

No excavation occurred at the facility during the first quarter. However, several activities have taken place throughout the facility during the quarter to prepare for the demolition.

- The facility's main power supply has been shut down. A new power system has been installed along Haul Road. Obsolete electrical connections are being eliminated at the utility poles and buildings.

- Air-gapping is being completed throughout the plant. Insulation removal from the tanks and piping are currently being conducted in preparation of demolition activities.
- Soil sampling and sediment removal was conducted from the north area of the cell building.
- The guard shack has been moved to the North Gate. Office personnel and facilities have been relocated to the instrument/electrical shop building.

2.0 Work Planned

2.1 Submittals

During the months of April through June 2008, GSHI plans to continue to work on the following documents related to the CMS and final remedies for the site:

- Responses to EPA's comments dated March 14, 2008 regarding the Draft Human Health Risk Assessment Report.
- 2007 PMP Report and Response to EPA's comments regarding the 2006 PMP Report (dated March 2007).
- Response to EPA's comments regarding WL-2 and proposed additional sampling
- AOC 12: 2007 Investigation: Report of Results.
- Corrective Measures Study (select draft sections including the AOC 12 and SWMU 12 (ChemFix Test Unit).

2.2 Groundwater

2nd Quarter 2008 PMP Sampling

The 2nd quarterly PMP sampling event will be completed in May 2008. Select Site monitoring wells will be sampled and analyzed for VOCs, total and dissolved metals (including mercury). Groundwater samples will also be analyzed for natural attenuation parameters. Discrete surface water samples will be collected in the Tributary (Stations G through N) and analyzed for VOCs, dissolved Target Analyte List (TAL) metals, and total and dissolved mercury. In addition, GSHI will continue monthly sampling well A-35D and several surrounding wells for total and dissolved mercury and complete monthly synoptic water levels measurements.

Groundwater Treatment System

GSHI will continue to operate the groundwater treatment system as per the EPA-approved O&M Plan.

DNAPL

GSHI will continue routine measurements and recovery of DNAPL in the area northwest of Waste Lake 1.

New Brine Sludge Landfill

GSHI will complete routine inspections and any required leachate pumping at the NBSL in accordance with the Post-Closure Permit. The next semi-annual groundwater-sampling event is scheduled for May 2008.

2.3 Soil

As needed, the Plant is implementing the Excavation Procedure, which was conditionally approved by EPA in a letter dated July 19, 2002. The procedure will remain in effect until a final remedy decision is made.

2.4 Routine Inspections

Routine inspections associated with several SWMUs will be completed as per the schedule in the table below.

Activity	Type of Inspection	Frequency
Former Lay Down Area	Silt Fence	Monthly
Stormwater Drainage Pond	General Condition	Monthly
WL-1	Cap	Monthly
WL-3	Cap	Bi-annual
OBSL	Cap	Bi-annual
Stormwater Channels and Outfalls	General Condition	Bi-annual

2.5 Plant Activities

Demolition work is anticipated to begin in late July 2008.

Certification

I certify that the information contained in or accompanying this letter is true, accurate and complete. As to those portions of this response for which I cannot personally verify their accuracy, I certify under penalty of law that this letter and all attachments were prepared in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

If you have any questions, please do not hesitate to call. I can be reached at (972) 687-7504.

Sincerely,

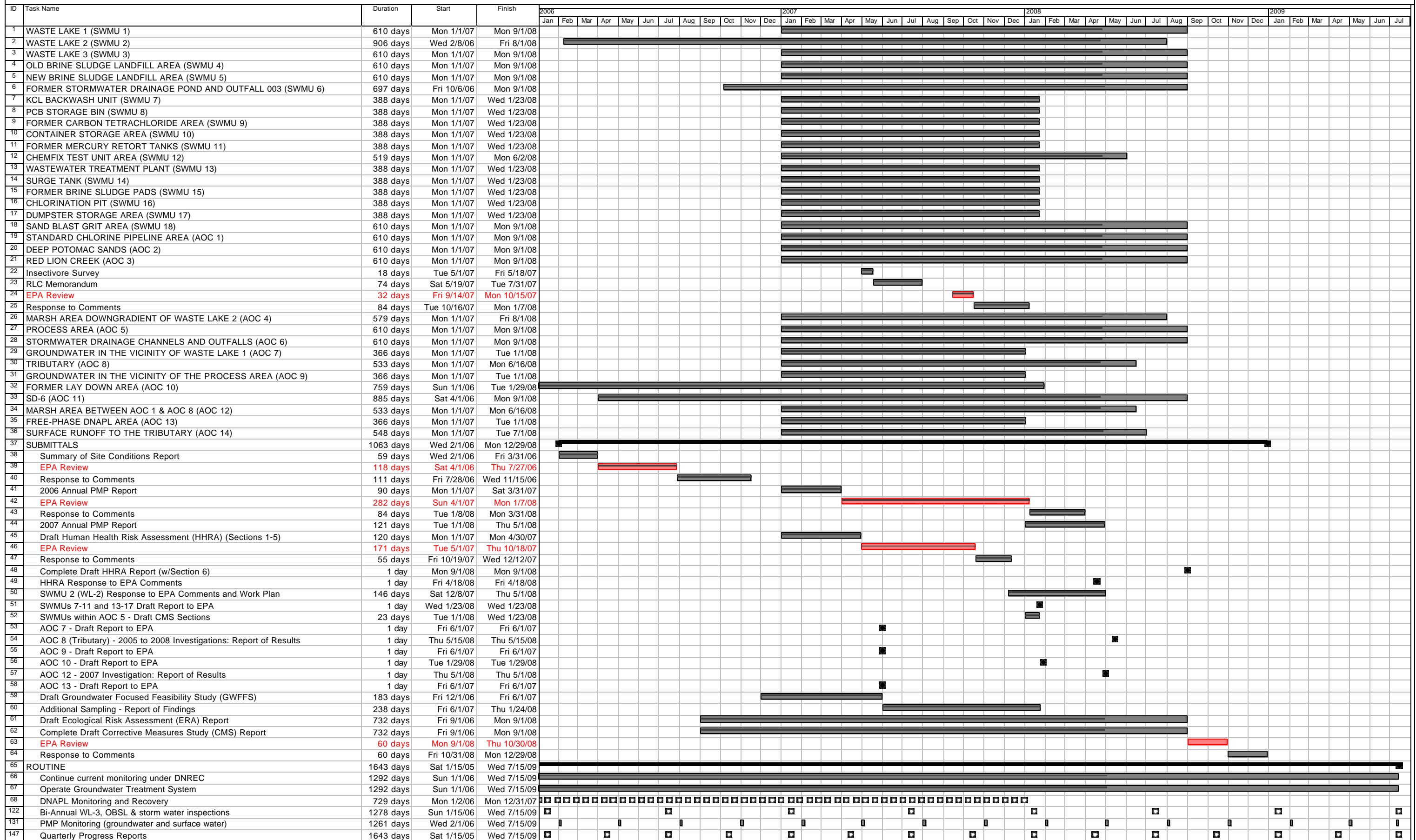


Richard J. Passmore
Director of Operations

cc: Donna McCartney, EPA (4-copies)
Eric Trinkle, DNREC (2-copies)
John Garges, CRA
Jack Armstrong, GSHI

FIGURES

FIGURE 1
FINAL REMEDIES SCHEDULE
OXYCHEM DELAWARE CITY FACILITY



TABLES

TABLE 1
SWMUs and Other Areas of Concern
OxyChem Delaware City, Delaware Facility

Number	SWMU/Other Area	Status	Does Data Exist?	If YES, what?	Will SWMU be decommissioned ?	Reference document(s)
SWMU 1	Waste Lake 1	Barrier wall, extraction wells, and final cover constructed in 2003-04. Ongoing operations and groundwater monitoring.	YES	Soil and groundwater	NA	Several prior to 1990, Phase I (1993) & Phase II (1998), IM Work Plan (1998), IMs WL-1 & WL-3 (1999), Plant Screening Work Plan (2000), RD Report (2000), Phyto Screening Results (2001), Additional Data Collection (2002), Barrier Wall RD
SWMU 2	Waste Lake 2	Soil and Worm samples collected in Summer 2006, additional samples were collected in May 2007. Evaluate potential exposure pathways, risks, and additional data needs (if any).	YES	Soil and groundwater	NA	Phase I (1993) & Phase II (1998)
SWMU 3	Waste Lake 3	In May 2006, sampling of the soil cap to collect analytical, vertical permeability and lithological data.	YES	Soil and groundwater	NA	Phase I (1993) & Phase II (1998), IM Work Plan (1998), IMs WL-1 & WL-3 (1999), Evaluation of Need for IMs (2001) Soil Cap Samping Program Memo (2006)
SWMU 4	Old Brine Sludge Landfill Area	In May 2006, sampling of the soil cap to collect analytical, vertical permeability and lithological data.	YES	Soil and groundwater	NA	Phase I (1993) & Phase II (1998), Brine Sludge Landfill Assessment (1983), Evaluation of Need for IMs (2001) Soil Cap Samping Program Memo (2006)
SWMU 5	New Brine Sludge Landfill Area	Lined and capped unit. Ongoing groundwater monitoring under DNREC permit (renewed Feb 18 2005)	YES	Groundwater	NA	Phase I (1993), NBSL Post-closure Permit (2005)
SWMU 6	Storm Water Drainage Pond and Outfall 003	Area re-worked during modifications to Outfall 003. Confirmation sampling completed in May 2007 and included Outfall 003 sediment and surface water sampling.	YES	Soil, Sediment and Surface Water	NA	Phase I (1993) & Phase II (1998), Additional Sampling Work Plan (2007). Summary of Activities Report (November 2007), Additional Data Collection Report (January 2008).
SWMU 7	KCL Backwash Unit	Within Barrier Wall. Excavation Procedure. No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	NO	NO	Decommissioned in 2005; Demolished in 2006	RFA (1986), Background Data Review Report (1989). Draft CMS Section (January 2008)
SWMU 8	PCB Storage Bin	Within Barrier Wall. Excavation Procedure. No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	NO	NO	Decommissioned and Demolished in 2007	RFA (1986), Background Data Review Report (1989). Draft CMS Section (January 2008)
SWMU 9	Carbon Tetrachloride Area	Within Barrier Wall. Excavation Procedure. Tank removed (1994). No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	YES	Soil and groundwater	Decommissioned in 1992, partially Demolished	Phase II (1998), Carbon Tetrachloride Investigation (1994). Draft CMS Section (January 2008)
SWMU 10	Container Storage Area	Within Barrier Wall. Excavation Procedure. No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	NO	NO	YES	RFA (1986), Background Data Review Report (1989). Draft CMS Section (January 2008)
SWMU 11	Former Mercury Retort Tanks	Within Barrier Wall. Excavation Procedure. No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	YES	Soil	Decommissioned and Demolished in 1992	RFA (1986), Background Data Review Report (1989). Draft CMS Section (January 2008)
SWMU 12	Chemfix Test Unit Area	Evaluate need for final remedy. Soil characterization sampling conducted in May 2007.	YES	Soil and Groundwater	NA	Phase I (1993) & Phase II (1998). Evaluation of the need for IMs at the Chem Fix Test Unit (2001). Additional Sampling Work Plan (2007). Summary of Activities Report (November 2007), Additional Data Collection Report (January 2008).
SWMU 13	Wastewater Treatment Plant	Within Barrier Wall. Excavation Procedure. Soil excavation and offsite disposal for footprint of WWTP completed in 1996. No pathways.Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	YES	Soil	YES	IMs Letter to EPA (1996). Draft CMS Section (January 2008)
SWMU 14	Surge Tank	Within Barrier Wall. Excavation Procedure. No pathways.Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	NO	NO	YES	RFA (1986), Background Data Review Report (1989). Draft CMS Section (January 2008)
SWMU 15	Brine Sludge Pad & Tanks	Within Barrier Wall. Excavation Procedure. No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	NO	NO	YES	RFA (1986), Background Data Review Report (1989). Draft CMS Section (January 2008)
SWMU 16	Chlorination Pit	Within Barrier Wall. Excavation Procedure. No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	NO	NO	YES	RFA (1986), Background Data Review Report (1989)
SWMU 17	Dumpster Storage Area	Within Barrier Wall. Excavation Procedure. No pathways. Draft section of CMS Report for this SWMU submitted to EPA, January 2008.	NO	NO	Decommissioned in 1990	RFA (1986), Background Data Review Report (1989). Draft CMS Section (January 2008)
SWMU 18	Sand Blast Grit Area	Removal of grit, covering with asphalt, construction of concrete sand blasting pad with surrounding walls completed in 2001. SBGA no longer used.	YES	Surface soil	YES	Phase II (1998), Interim Design (2001), Post-Remediation Report (2002)

TABLE 1
SWMUs and Other Areas of Concern
OxyChem Delaware City, Delaware Facility

Number	SWMU/Other Area	Status	Does Data Exist?	If YES, what?	Will SWMU be decommissioned ?	Reference document(s)
AOC 1	Standard Chlorine Pipeline Area	Excavation of impacted material removed, spoils placed on WL-1 and capped completed in 2004. Ongoing groundwater monitoring.	YES	Soil and groundwater	NA	Phase I (1993) & Phase II (1998), Additional Sampling Work Plan (2001), Interim Measures Design (2002), Interim Measures Report (2003), Post-Construction Report (2005)
AOC 2	Deep Potomac Sands	Ongoing groundwater monitoring.	YES	Groundwater (A-17)	NA	Phase II (1998), Aquifer Connection Study (1983), Potomac Work Plan (1998)
AOC 3	Red Lion Creek	RLC will be addressed in Eco RA report. No recommended remedial action.	YES	Surface water, sediment, piezometer, pore water	NA	Phase II (1998), Work Plan Memos (2004), Tributary Report (2005)
AOC 4	Marsh Area Downgradient of Waste Lake 2	As part of WL-2, evaluate potential exposure pathways, risks, and additional data need (if any).	YES	Surface water, sediment, piezometer	NA	Phase II (1998)
AOC 5	Process Area	Excavation Procedure currently implemented as per EPA-approved procedure. Evaluate Final Remedy for future use. Additional analytical and geotechnical soil sampling performed June 2007.	YES	Soil and groundwater	NA	Phase II (1998), Hg Impacted Soils Encountered during recent construction projects (1993), Implementation of Procedure (see excavation procedure eDAT). Additional Sampling Work Plan (2007), Additional Data Collection Report (January 2008).
AOC 6	Stormwater Drainage Channels and Outfalls	Removal of sediment in open channels and piped portions completed in 2001 and 2002.	YES	Soil	NA	Phase II (1998), Results of Ditch Sediment Analysis (1998), IM Design Report (2001), Post-Remediation Report (2002).
AOC 7	Groundwater in the Vicinity of Waste Lake 1	Ongoing groundwater monitoring. Potential final remedies presented in the Draft Groundwater Feasibility Study, dated June 2007.	YES	Soil and groundwater	NA	Several prior to 1990, Phase I (1993) & Phase II (1998), WL-1 DNAPL Report (2003), WL-1 DNAPL Memo (2004), WL-1 DNAPL 3-month Work Plan (2005), Draft Groundwater Feasibility Study (2007)
AOC 8	Tributary	Tributary will be addressed in Eco RA report.	YES	Surface water, sediment, piezometer	NA	Phase II (1998), Work Plan Memos (2004), Tributary Report (2005)
AOC 9	Groundwater in the Vicinity of the Process Area	Barrier wall and collection trench constructed in 2003. Ongoing operations and groundwater monitoring. Potential final remedies presented in the Draft Groundwater Feasibility Study, dated June 2007.	YES	Groundwater	NA	Phase I (1993) & Phase II (1998), Additional Data Collection (2002), Barrier Wall RD Report (2002), Post-Closure Report (2005), Draft Groundwater Feasibility Study (2007)
AOC 10	Former Lay Down Area	Additional soil sampling conducted May 2007, including a seep water sample. Draft section of CMS Report for AOC 10 submitted to EPA, January 2008.	YES	Groundwater (A-66 thru A-68), Soil, Seep Water	NA	Former Laydown Area Soil Sampling Memo (September 2006). Additional Sampling Work Plan (2007). Summary of Activities Report (November 2007), Additional Data Collection Report (January 2008). Draft CMS Section (January 2008)
AOC 11	SD - 6	Additional sampling results indicated no risk; no recommended remedial action.	YES	Surface water, sediment, piezometer	NA	Phase II (1998), Work Plan Memos (2004), Tributary Report (2005)
AOC 12	Marsh Area between AOC 1 and AOC 8	Additional Investigation and Sampling performed in May, June and July 2007 for preparation of the CMS.	YES	Soil, Groundwater and Pore Water	NA	Phase I (1993) & Phase II (1998), Additional Sampling Work Plan (2001), Interim Measures Design (2002), Interim Measures Report (2003), Post-Construction Report (2005), Additional Work Plan (July 2007) Summary of Activities
AOC 13	Free-Phase DNAPL Area	Ongoing groundwater monitoring and DNAPL removal.	YES	Soil and groundwater	NA	Several prior to 1990, Phase I (1993) & Phase II (1998), WL-1 DNAPL Report (2003), WL-1 DNAPL Memo (2004), WL-1 DNAPL 3-month Work Plan (2005). Draft Groundwater Feasibility Study (2007)
AOC 14	Surface Runoff to the Tributary	Additional Sampling of soil and sediment conducted in May 2007 for preparation of the CMS.	YES	Soil and Sediment	NA	Additional Sampling Work Plan (2007). Summary of Activities Report (November 2007), Additional Data Collection Report (January 2008).

Notes:
Requirements for HHRA and ECO RA based on the unit itself, not potential as a source to other areas.

ATTACHMENT A

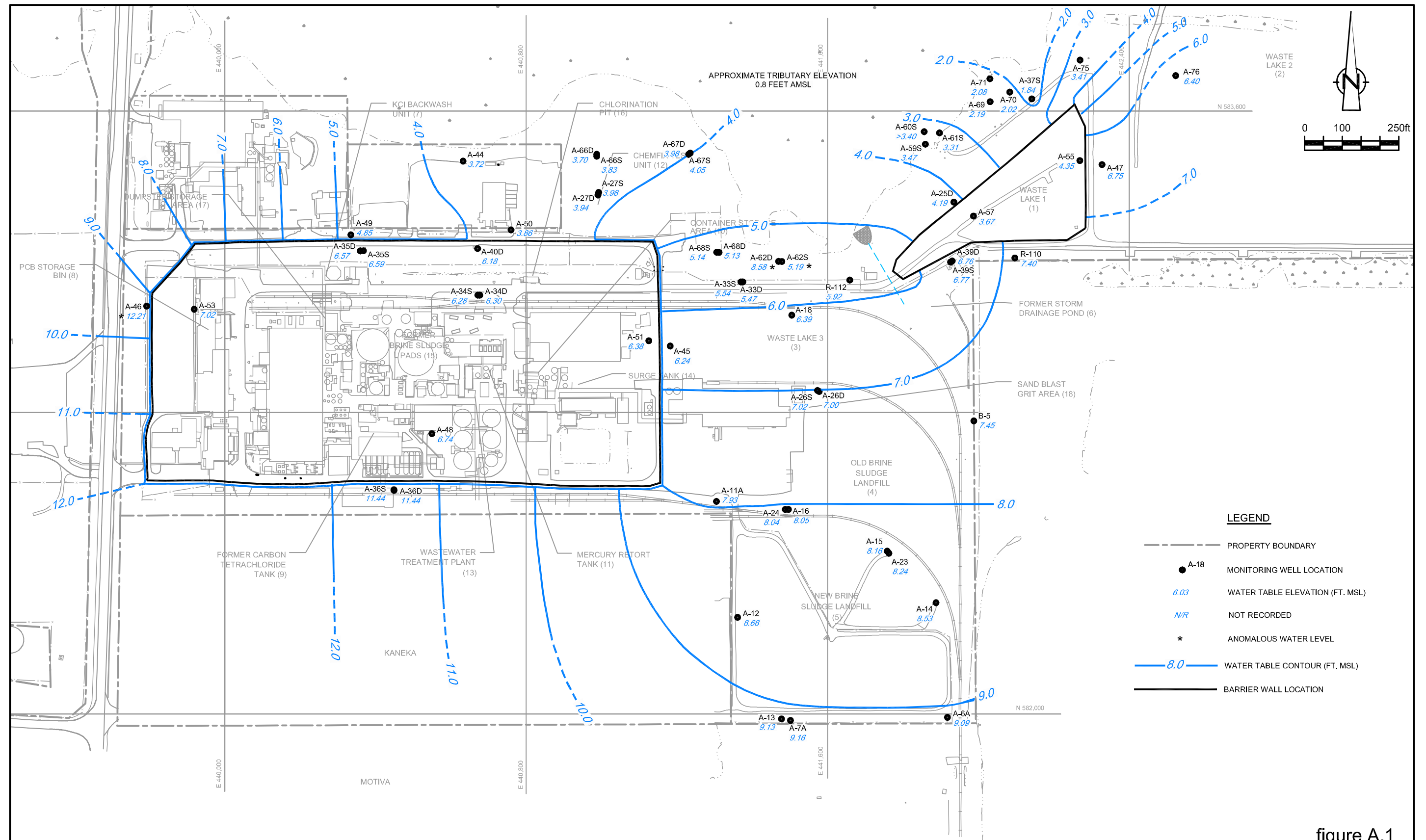
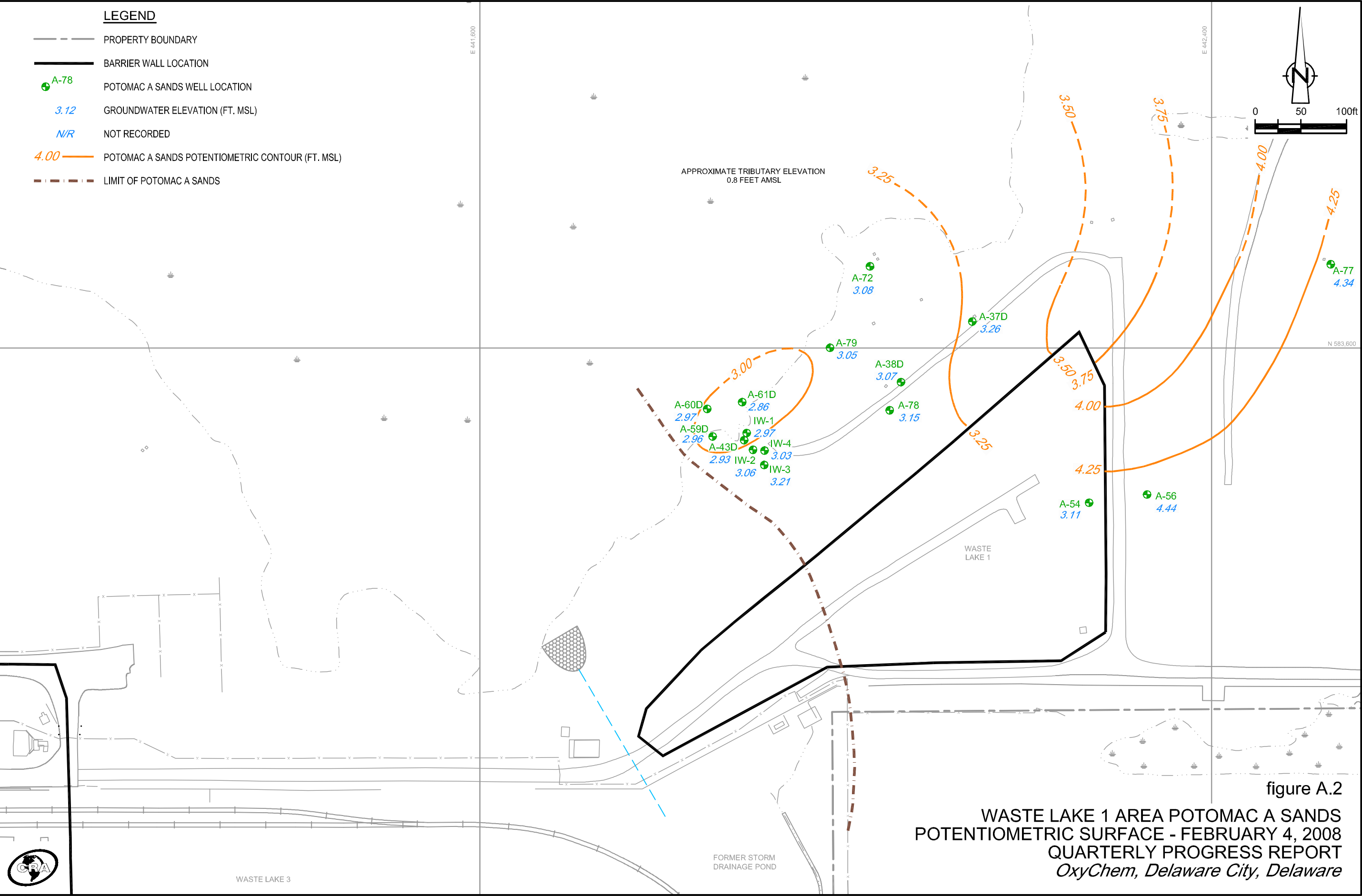
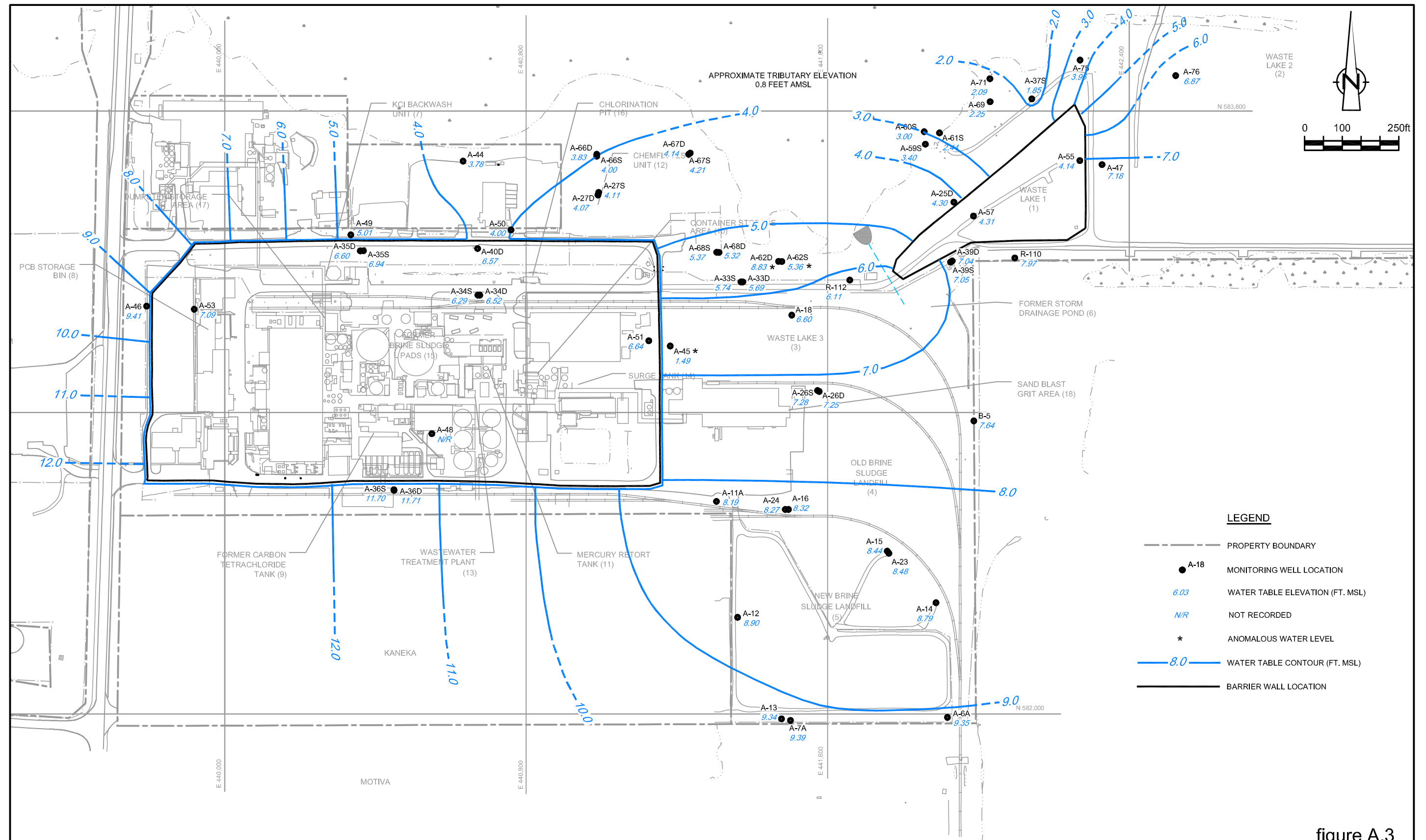
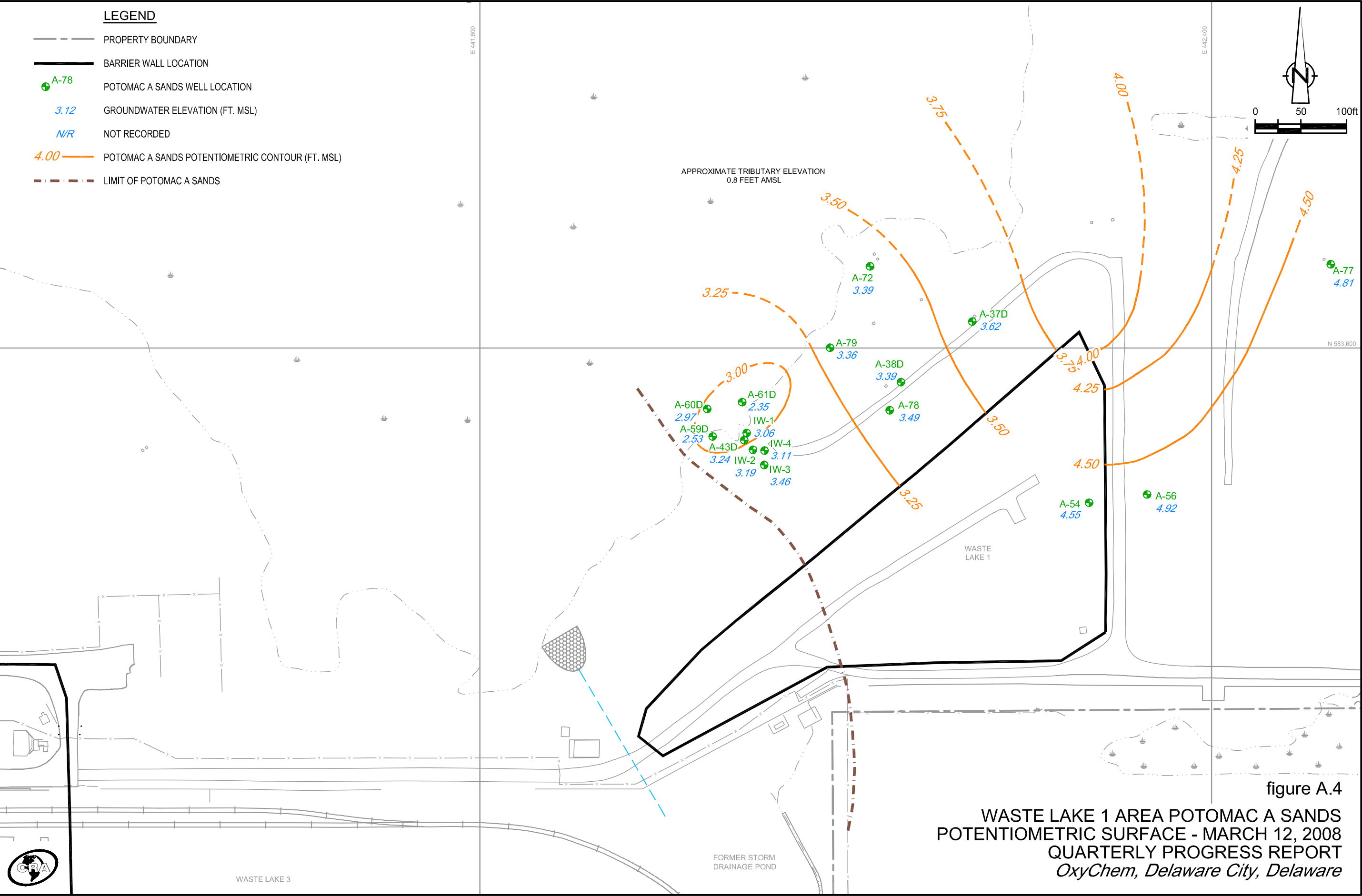


figure A.1

GROUNDWATER CONTOURS - FEBRUARY 4, 2008
QUARTERLY PROGRESS REPORT
OxyChem, Delaware City, Delaware







Water Table Contour Map for March 2008 (see Figure A.1 for the February 2008 map)

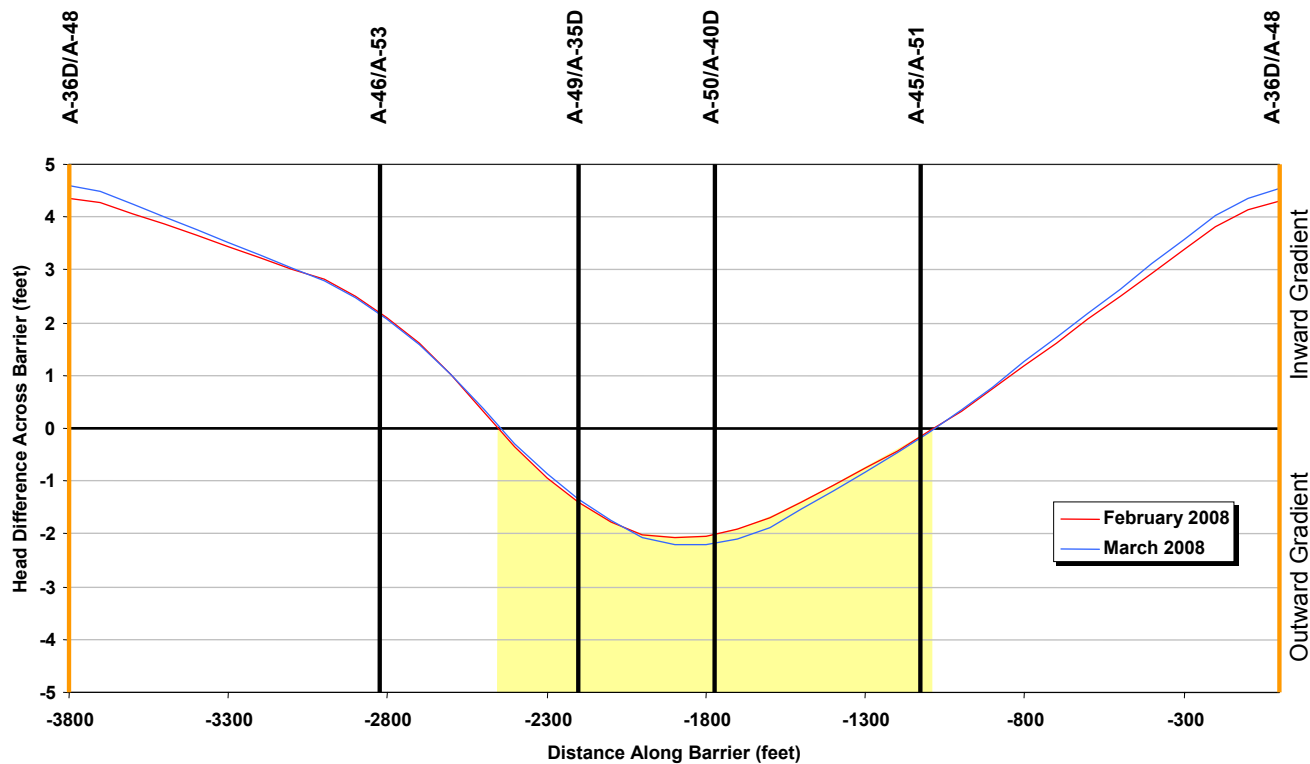
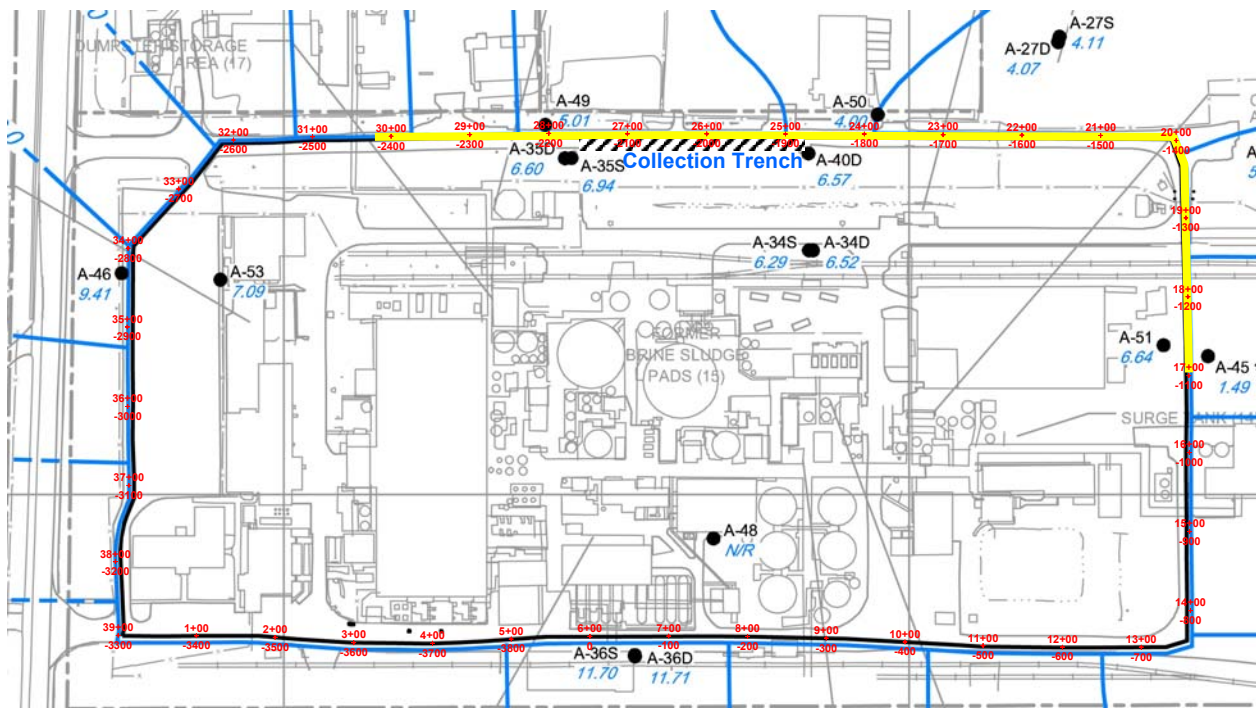


figure A.5

HEAD DIFFERENCE ACROSS THE PROCESS AREA BARRIER
1ST QUARTER PROGRESS REPORT
OxyChem, Delaware City, Delaware



Glenn Springs Holdings, Inc.

Water Table Contour Map for February 2008

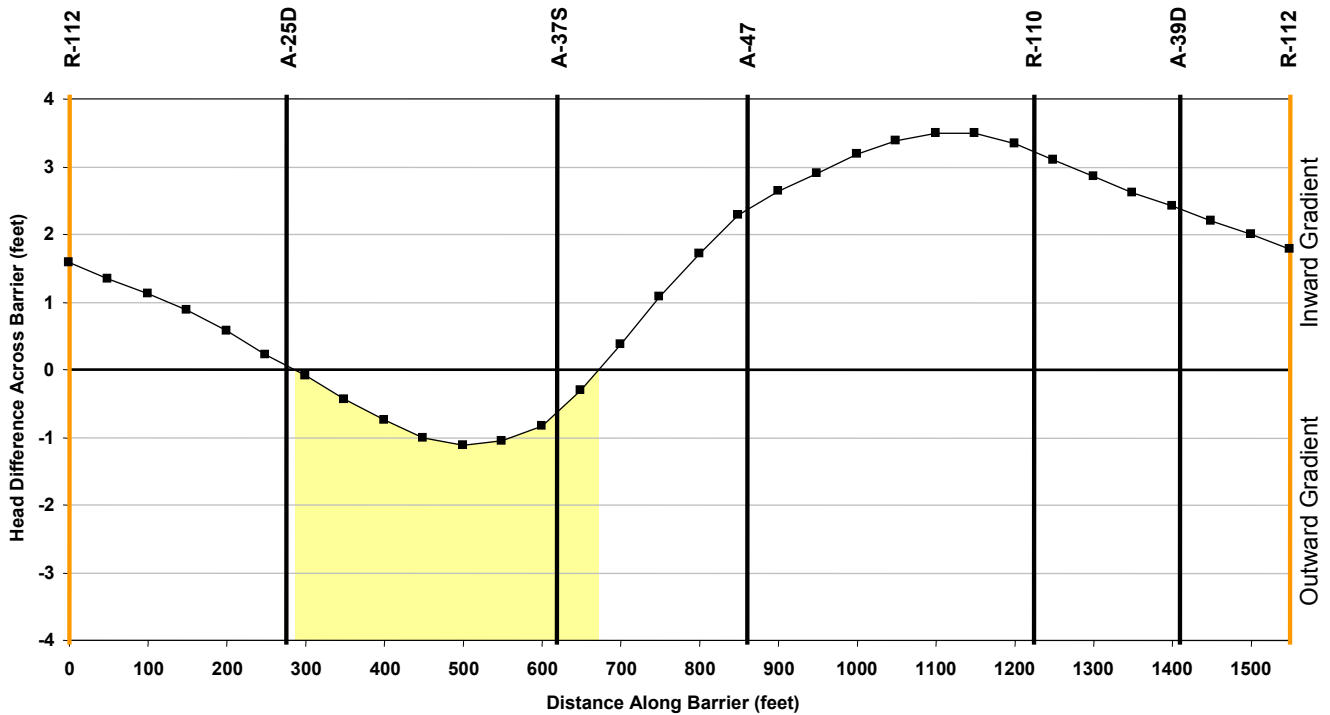
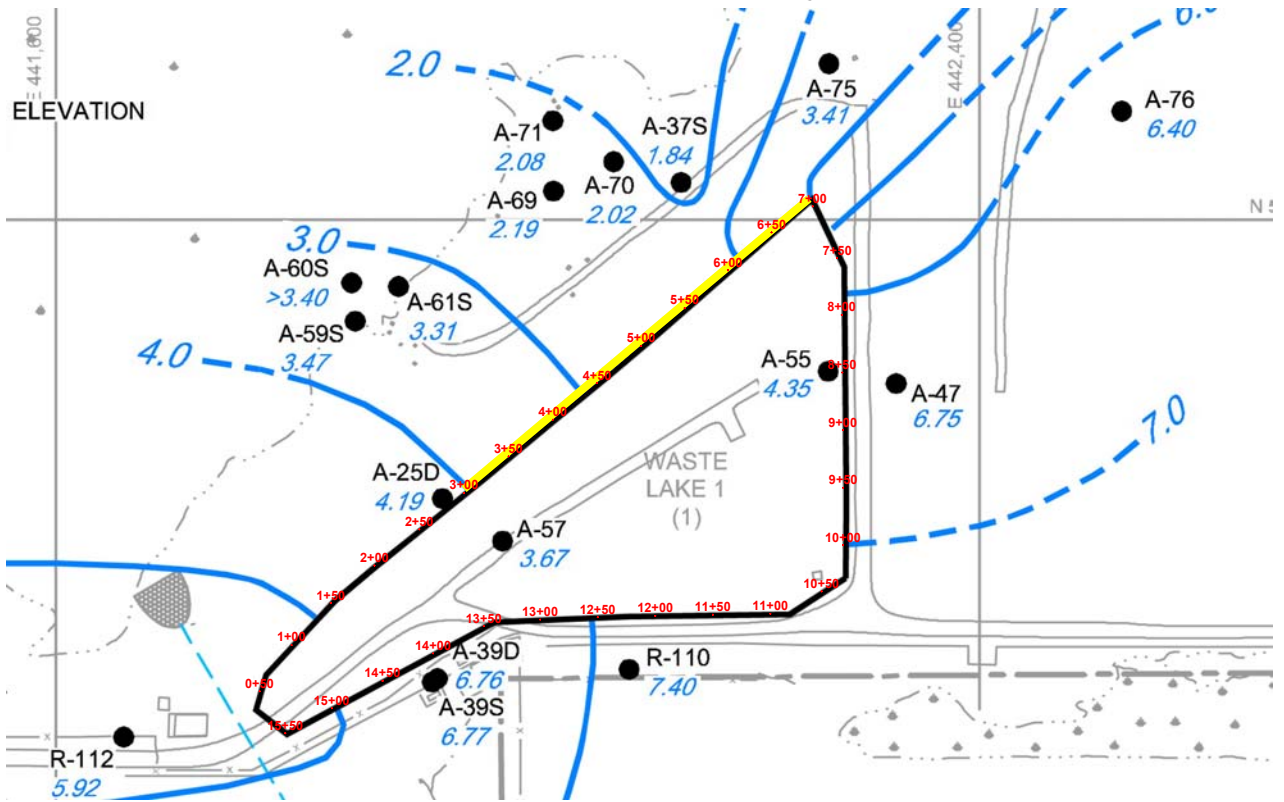


figure A.6

HEAD DIFFERENCE ACROSS THE WL-1 BARRIER

FEBRUARY 2008

1ST QUARTER PROGRESS REPORT

OxyChem, Delaware City, Delaware



Glenn Springs Holdings, Inc.

Water Table Contour Map for March 2008

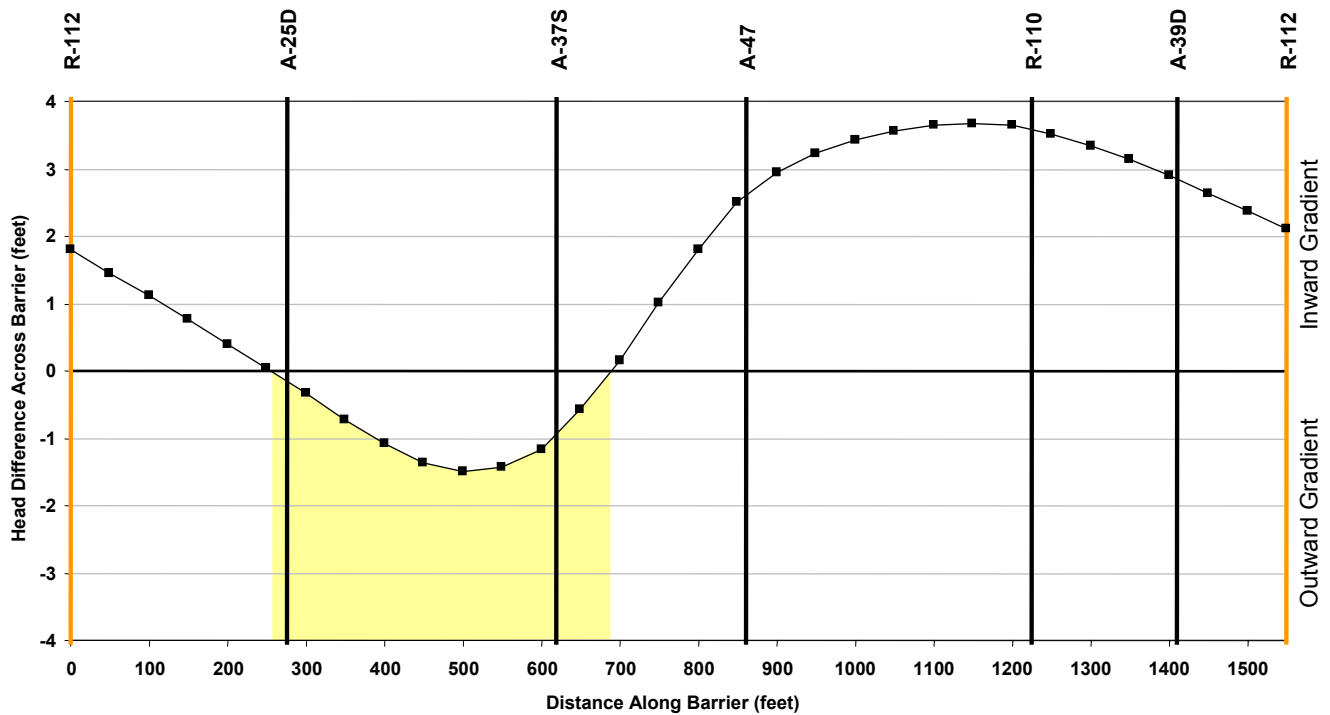
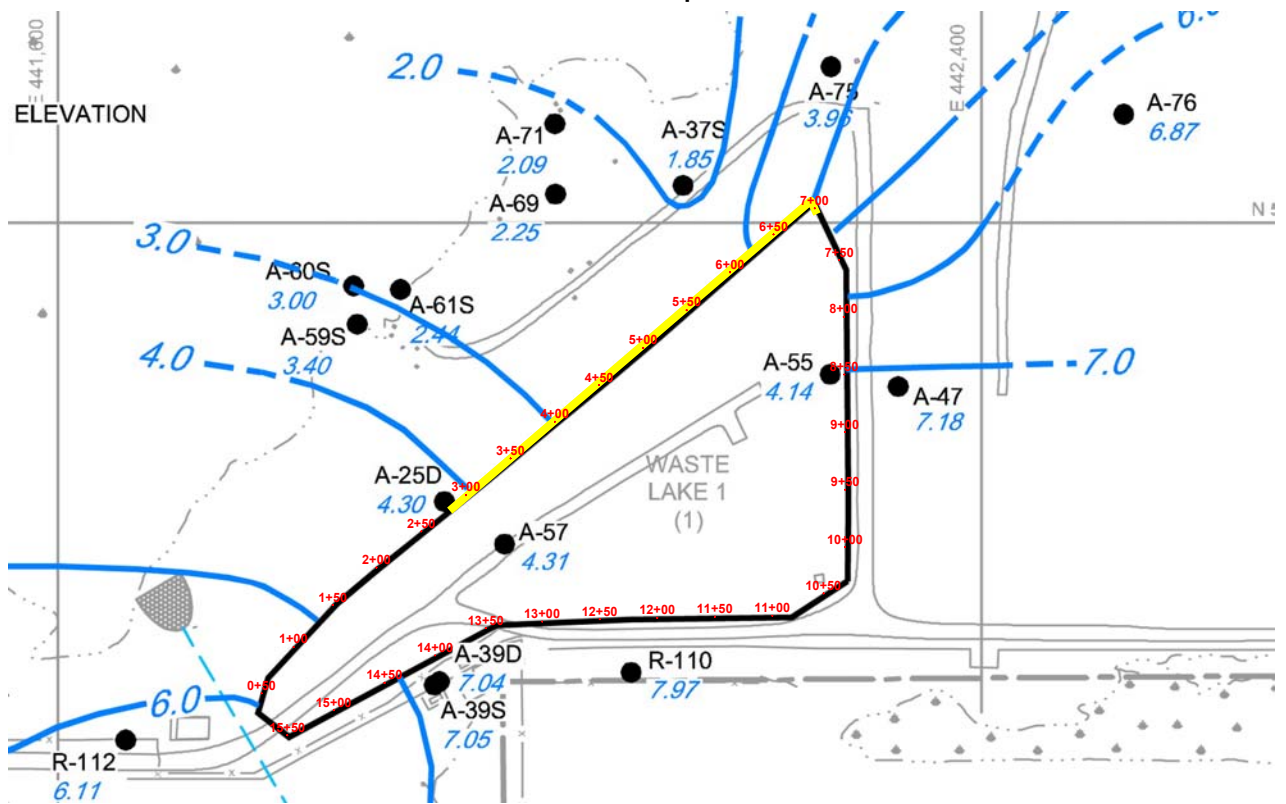


figure A.7

HEAD DIFFERENCE ACROSS THE WL-1 BARRIER

MARCH 2008

1ST QUARTER PROGRESS REPORT

OxyChem, Delaware City, Delaware

ATTACHMENT B

ANALYTICAL RESULTS SUMMARY
PMP GROUNDWATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY 2008

Sample Location:				A-27D	A-27S	A-44	A-49	A-50	A-65	A-66D	A-66S
Sample ID:				GW-7462-020508-MJW-04	W-7462-020608-MJW-006	W-7462-020508-MJW-02	W-7462-020508-MJW-02	W-7462-020508-MJW-02	W-7462-020708-016	W-7462-020608-MJW-007	W-7462-020608-MJW-007
Sample Date:				2/5/2008	2/6/2008	2/5/2008	2/5/2008	2/5/2008	2/7/2008	2/6/2008	2/6/2008
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type							
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	410	200	MCL	-	-	-	-	1 U	-	-
1,1,2,2-Tetrachloroethane	ug/L	2400	0.0527	RBC	-	-	-	-	1 U	-	-
1,1,2-Trichloroethane	ug/L	87	5	MCL	-	-	-	-	1 U	-	-
1,1-Dichloroethane	ug/L	740	896.5	RBC	-	-	-	-	1 U	-	-
1,1-Dichloroethene	ug/L	25	7	MCL	-	-	-	-	1 U	-	-
1,2,4-Trichlorobenzene	ug/L	50	70	MCL	-	-	-	-	27	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	0.2	MCL	-	-	-	-	1 U	-	-
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	0.05	MCL	-	-	-	-	1 U	-	-
1,2-Dichlorobenzene	ug/L	14	600	MCL	-	-	-	-	100 ^a	-	-
1,2-Dichloroethane	ug/L	980	5	MCL	-	-	-	-	1 U	-	-
1,2-Dichloropropane	ug/L	525	5	MCL	-	-	-	-	1 U	-	-
1,3-Dichlorobenzene	ug/L	52	18.25	RBC	-	-	-	-	9	-	-
1,4-Dichlorobenzene	ug/L	16	75	MCL	-	-	-	-	110 ^{ab}	-	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	6968	RBC	-	-	-	-	5 U	-	-
2-Hexanone	ug/L	99	-	-	-	-	-	-	5 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	6278	RBC	-	-	-	-	5 U	-	-
Acetone	ug/L	1500	5475	RBC	-	-	-	-	5 U	-	-
Benzene	ug/L	98	5	MCL	-	-	-	-	62 ^a	-	-
Bromodichloromethane	ug/L	110	0.17	RBC	-	-	-	-	1 U	-	-
Bromoform	ug/L	320	8.48	RBC	-	-	-	-	1 U	-	-
Bromomethane (Methyl Bromide)	ug/L	110	8.52	RBC	-	-	-	-	1 U	-	-
Carbon disulfide	ug/L	0.92	1042	RBC	-	-	-	-	1 U	-	-
Carbon tetrachloride	ug/L	9.8	5	MCL	-	-	-	-	1 U	-	-
Chlorobenzene	ug/L	64	100	MCL	-	-	-	-	350 ^{ab}	-	-
Chloroethane	ug/L	-	3.64	RBC	-	-	-	-	1 U	-	-
Chloroform (Trichloromethane)	ug/L	28	0.155	RBC	-	-	-	-	1 U	-	-
Chloromethane (Methyl Chloride)	ug/L	5500	190	RBC	-	-	-	-	1 U	-	-
cis-1,2-Dichloroethene	ug/L	590	70	MCL	-	-	-	-	1 U	-	-
cis-1,3-Dichloropropene	ug/L	0.055	-	-	-	-	-	-	1 U	-	-
Cyclohexane	ug/L	-	12410	RBC	-	-	-	-	1 U	-	-
Dibromochloromethane	ug/L	110	0.126	RBC	-	-	-	-	1 U	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	110	347	RBC	-	-	-	-	1 U	-	-
Ethylbenzene	ug/L	110	700	MCL	-	-	-	-	1 U	-	-
Isopropylbenzene	ug/L	-	658	RBC	-	-	-	-	1 U	-	-
Methyl acetate	ug/L	-	6083	RBC	-	-	-	-	1 U	-	-
Methyl cyclohexane	ug/L	-	6278	RBC	-	-	-	-	1 U	-	-
Methyl Tert Butyl Ether	ug/L	-	2.64	RBC	-	-	-	-	1 U	-	-
Methylene chloride	ug/L	1500	5	MCL	-	-	-	-	1 U	-	-
Styrene	ug/L	241	100	MCL	-	-	-	-	1 U	-	-
Tetrachloroethene	ug/L	60	5	MCL	-	-	-	-	1 U	-	-
Toluene	ug/L	94	1000	MCL	-	-	-	-	1 U	-	-
trans-1,2-Dichloroethene	ug/L	1160	100	MCL	-	-	-	-	1 U	-	-
trans-1,3-Dichloropropene	ug/L	244	-	-	-	-	-	-	1 U	-	-
Trichloroethene	ug/L	47	5	MCL	-	-	-	-	1 U	-	-
Trichlorofluoromethane (CFC-11)	ug/L	110	1288	RBC	-	-	-	-	1 U	-	-
Trifluorotrichloroethane (Freon 113)	ug/L	-	59375	RBC	-	-	-	-	1 U	-	-
Vinyl chloride	ug/L	930	2	MCL	-	-	-	-	1 U	-	-
Xylene (total)	ug/L	13	10000	MCL	-	-	-	-	1 U	-	-

ANALYTICAL RESULTS SUMMARY
PMP GROUNDWATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY 2008

Sample Location:					A-27D	A-27S	A-44	A-49	A-50	A-65	A-66D	A-66S
Sample ID:					GW-7462-020508-MJW-04	W-7462-020608-MJW-006	W-7462-020508-MJW-04	W-7462-020508-MJW-04	W-7462-020508-MJW-04	W-7462-020708-016	W-7462-020608-MJW-006	W-7462-020608-MJW-006
Sample Date:					2/5/2008	2/6/2008	2/5/2008	2/5/2008	2/5/2008	2/7/2008	2/6/2008	2/6/2008
		Ecological	Federal	Criteria								
Parameters	Units	Criteria a	MCLs or RBCs b	Type								
Metals												
Aluminum	ug/L	87	36500	RBC	-	-	-	-	-	1070 K ^a	-	-
Aluminum (Dissolved)	ug/L	87	36500	RBC	-	-	-	-	-	9.8 B	-	-
Antimony	ug/L	30	6	MCL	-	-	-	-	-	2.6 J	-	-
Antimony (Dissolved)	ug/L	30	6	MCL	-	-	-	-	-	2.3 J	-	-
Arsenic	ug/L	150	10	MCL	-	-	-	-	-	27.8 ^a	-	-
Arsenic (Dissolved)	ug/L	150	10	MCL	-	-	-	-	-	13.5 ^b	-	-
Barium	ug/L	438	2000	MCL	-	-	-	-	-	521 ^a	-	-
Barium (Dissolved)	ug/L	438	2000	MCL	-	-	-	-	-	485 ^a	-	-
Beryllium	ug/L	2.4	4	MCL	-	-	-	-	-	0.18 U	-	-
Beryllium (Dissolved)	ug/L	2.4	4	MCL	-	-	-	-	-	0.18 U	-	-
Cadmium	ug/L	0.25	5	MCL	-	-	-	-	-	1.8 B ^a	-	-
Cadmium (Dissolved)	ug/L	0.25	5	MCL	-	-	-	-	-	1.6 B ^a	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	53300	-	-
Calcium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	50500	-	-
Chromium Total	ug/L	11	100	MCL	-	-	-	-	-	24.8 ^a	-	-
Chromium Total (Dissolved)	ug/L	11	100	MCL	-	-	-	-	-	0.57 U	-	-
Cobalt	ug/L	23	730	RBC	-	-	-	-	-	2.8 J	-	-
Cobalt (Dissolved)	ug/L	23	730	RBC	-	-	-	-	-	2.1 J	-	-
Copper	ug/L	9	1460	RBC	-	-	-	-	-	6.6 B	-	-
Copper (Dissolved)	ug/L	9	1460	RBC	-	-	-	-	-	0.90 J	-	-
Iron	ug/L	320	10950	RBC	-	-	-	-	-	91800 ^{ab}	-	-
Iron (Dissolved)	ug/L	320	10950	RBC	-	-	-	-	-	77600 ^{ab}	-	-
Lead	ug/L	2.5	15	-	-	-	-	-	-	1.4 U	-	-
Lead (Dissolved)	ug/L	2.5	15	-	-	-	-	-	-	1.4 U	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	18100	-	-
Magnesium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	17100	-	-
Manganese	ug/L	1300	730	RBC	-	-	-	-	-	738 ^a	-	-
Manganese (Dissolved)	ug/L	1300	730	RBC	-	-	-	-	-	679	-	-
Mercury	ug/L	0.77	2	MCL	24.3 ^{ab}	0.89 ^a	5.4 ^{ab}	16.0 ^{ab}	28.1 ^{ab}	0.51	41.6 ^{ab}	3.1 ^{ab}
Mercury (Dissolved)	ug/L	0.77	2	MCL	25.0 ^{ab}	0.26	1.0 ^a	3.7 ^{ab}	16.4 ^{ab}	0.14 J	15.6 ^{ab}	0.14 J
Nickel	ug/L	52	730	RBC	-	-	-	-	-	10.6 J	-	-
Nickel (Dissolved)	ug/L	52	730	RBC	-	-	-	-	-	3.1 B	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	5190	-	-
Potassium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	4800 J	-	-
Selenium	ug/L	4.6	50	MCL	-	-	-	-	-	2.4 U	-	-
Selenium (Dissolved)	ug/L	4.6	50	MCL	-	-	-	-	-	2.4 U	-	-
Silver	ug/L	0.36	183	RBC	-	-	-	-	-	0.41 U	-	-
Silver (Dissolved)	ug/L	0.36	183	RBC	-	-	-	-	-	1.0 B ^a	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	31000	-	-
Sodium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	30400	-	-
Thallium	ug/L	6	2	MCL	-	-	-	-	-	2.3 U	-	-
Thallium (Dissolved)	ug/L	6	2	MCL	-	-	-	-	-	3.0 J ^b	-	-
Vanadium	ug/L	12	37	RBC	-	-	-	-	-	11.4 J	-	-
Vanadium (Dissolved)	ug/L	12	37	RBC	-	-	-	-	-	2.0 J	-	-
Zinc	ug/L	118.1	10950	RBC	-	-	-	-	-	22.6 B	-	-
Zinc (Dissolved)	ug/L	118.1	10950	RBC	-	-	-	-	-	14.0 B	-	-

ANALYTICAL RESULTS SUMMARY
PMP GROUNDWATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY 2008

Sample Location:				A-67D	A-67S	A-69	A-70	A-70	A-71	A-75	A-77
Sample ID:				GW-7462-020608-MJW-005	W-7462-020608-MJW-011	W-7462-020608-MJW-012	W-7462-020708-012	W-7462-020708-013	W-7462-020708-014	W-7462-020708-015	W-7462-020708-017
Sample Date:				2/6/2008	2/6/2008	2/6/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type				(Duplicate)			
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	410	200	MCL	-	-	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	2400	0.0527	RBC	-	-	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	87	5	MCL	-	-	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	740	896.5	RBC	-	-	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	25	7	MCL	-	-	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	50	70	MCL	-	-	330 ^{ab}	200 ^{ab}	270 ^{ab}	130 ^{ab}	3900 ^{ab}
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	0.2	MCL	-	-	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	0.05	MCL	-	-	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	14	600	MCL	-	-	3200 ^{ab}	2100 ^{ab}	2600 ^{ab}	1000 ^{ab}	19000 ^{ab}
1,2-Dichloroethane	ug/L	980	5	MCL	-	-	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	525	5	MCL	-	-	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	52	18.25	RBC	-	-	240 ^{ab}	270 ^{ab}	330 ^{ab}	190 ^{ab}	1700 ^{ab}
1,4-Dichlorobenzene	ug/L	16	75	MCL	-	-	6100 ^{ab}	2900 ^{ab}	3600 ^{ab}	4100 ^{ab}	21000 ^{ab}
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	6968	RBC	-	-	5 U	5 U	5 U	5 U	13 K
2-Hexanone	ug/L	99	-	-	-	-	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	6278	RBC	-	-	5 U	5 U	5 U	5 U	3 K
Acetone	ug/L	1500	5475	RBC	-	-	5 U	5 U	5 U	5 U	12 K
Benzene	ug/L	98	5	MCL	-	-	830 ^{ab}	2900 ^{ab}	3400 ^{ab}	570 ^{ab}	75000 ^{ab}
Bromodichloromethane	ug/L	110	0.17	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	320	8.48	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl Bromide)	ug/L	110	8.52	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/L	0.92	1042	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	ug/L	9.8	5	MCL	-	-	21 ^{ab}	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	64	100	MCL	-	-	8700 ^{ab}	7900 ^{ab}	9300 ^{ab}	3000 ^{ab}	130000 ^{ab}
Chloroethane	ug/L	-	3.64	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Chloroform (Trichloromethane)	ug/L	28	0.155	RBC	-	-	3 ^b	3 ^b	3 ^b	2 ^b	1 U
Chloromethane (Methyl Chloride)	ug/L	5500	190	RBC	-	-	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	590	70	MCL	-	-	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	0.055	-	-	-	-	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	-	12410	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/L	110	0.126	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	110	347	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	110	700	MCL	-	-	1 U	3	1 U	1 U	1 U
Isopropylbenzene	ug/L	-	658	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Methyl acetate	ug/L	-	6083	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Methyl cyclohexane	ug/L	-	6278	RBC	-	-	1 U	1 U	1 U	1 U	6 K
Methyl Tert Butyl Ether	ug/L	-	2.64	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	1500	5	MCL	-	-	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	241	100	MCL	-	-	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	60	5	MCL	-	-	5	3	3	1 U	3 K
Toluene	ug/L	94	1000	MCL	-	-	1 U	1	1 U	1 U	42 K
trans-1,2-Dichloroethene	ug/L	1160	100	MCL	-	-	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	244	-	-	-	-	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	47	5	MCL	-	-	1 U	3	3	1	1 U
Trichlorofluoromethane (CFC-11)	ug/L	110	1288	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	59375	RBC	-	-	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/L	930	2	MCL	-	-	14 ^a	28 ^a	26 ^a	24 ^b	4 K ^a
Xylene (total)	ug/L	13	10000	MCL	-	-	1 U	5	2	1 U	2 K

ANALYTICAL RESULTS SUMMARY
PMP GROUNDWATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY 2008

Sample Location:					A-67D	A-67S	A-69	A-70	A-70	A-71	A-75	A-77
Sample ID:					GW-7462-020608-MJW-005	GW-7462-020608-MJW-011	GW-7462-020608-MJW-015	GW-7462-020708-012	GW-7462-020708-013	GW-7462-020708-014	GW-7462-020708-015	GW-7462-020708-017
Sample Date:					2/6/2008	2/6/2008	2/6/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type					(Duplicate)			
Metals												
Aluminum	ug/L	87	36500	RBC	-	-	4730 K ^a	1750 K ^a	1470 K ^a	2920 K ^a	963 K ^a	2700 K ^a
Aluminum (Dissolved)	ug/L	87	36500	RBC	-	-	8.8 U	16.3 B	19.2 B	17.5 B	14.1 B	14.4 B
Antimony	ug/L	30	6	MCL	-	-	2.3 U	2.3 U	2.3 U	2.3 U	7.2 J ^b	3.9 J
Antimony (Dissolved)	ug/L	30	6	MCL	-	-	2.3 U	2.3 U	2.3 U	2.3 U	5.2 J	3.2 J
Arsenic	ug/L	150	10	MCL	-	-	5.1 J	1.8 U	1.8 U	4.5 J	27.8 ^a	14.0 ^a
Arsenic (Dissolved)	ug/L	150	10	MCL	-	-	1.8 U	1.8 U	1.8 U	1.8 U	12.4 ^b	7.4 J
Barium	ug/L	438	2000	MCL	-	-	40.5 J	7.0 J	6.5 J	19.9 J	501 ^a	325
Barium (Dissolved)	ug/L	438	2000	MCL	-	-	25.9 J	4.8 J	4.6 J	14.1 J	493 ^a	321
Beryllium	ug/L	2.4	4	MCL	-	-	0.81 B	0.20 B	0.18 U	0.29 B	0.18 U	0.18 U
Beryllium (Dissolved)	ug/L	2.4	4	MCL	-	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Cadmium	ug/L	0.25	5	MCL	-	-	1.3 B ^a	0.32 U	0.32 U	0.32 U	7.1 ^{ab}	2.6 B ^a
Cadmium (Dissolved)	ug/L	0.25	5	MCL	-	-	0.32 U	0.32 U	0.32 U	0.32 U	5.6 ^{ab}	2.3 B ^a
Calcium	ug/L	-	-	-	-	-	88900	27600	27500	97900	93700	95000
Calcium (Dissolved)	ug/L	-	-	-	-	-	88600	27800	27100	102000	92900	95200
Chromium Total	ug/L	11	100	MCL	-	-	14.9 ^a	2.3 J	1.8 J	4.1 J	4.6 J	17.8 ^a
Chromium Total (Dissolved)	ug/L	11	100	MCL	-	-	0.93 B	0.60 B	0.57 U	0.83 B	0.84 B	0.57 U
Cobalt	ug/L	23	730	RBC	-	-	8.0 J	2.2 J	2.0 J	4.2 J	1.1 J	3.6 J
Cobalt (Dissolved)	ug/L	23	730	RBC	-	-	3.4 J	1.6 J	1.1 U	2.0 J	2.0 J	2.6 J
Copper	ug/L	9	1460	RBC	-	-	11.4 J ^a	4.5 B	3.7 B	9.4 J ^a	9.4 J ^a	9.7 J ^a
Copper (Dissolved)	ug/L	9	1460	RBC	-	-	0.87 U	0.87 U	0.87 U	0.87 U	2.9 J	0.94 J
Iron	ug/L	320	10950	RBC	-	-	30200 ^{ab}	5080 ^a	4150 ^a	10000 ^a	243000 ^{ab}	134000 ^{ab}
Iron (Dissolved)	ug/L	320	10950	RBC	-	-	703 ^a	127 B	122 B	208	218000 ^{ab}	127000 ^{ab}
Lead	ug/L	2.5	15	-	-	-	6.1 B ^a	3.1 B ^a	2.8 B ^a	3.4 B ^a	1.4 U	1.4 U
Lead (Dissolved)	ug/L	2.5	15	-	-	-	1.4 U	1.4 U	1.4 U	1.4 U	6.9 U	6.9 U
Magnesium	ug/L	-	-	-	-	-	46000	29300	29800	47800	99000	29700
Magnesium (Dissolved)	ug/L	-	-	-	-	-	45200	28300	28400	48700	96200	29700
Manganese	ug/L	1300	730	RBC	-	-	10500 ^{ab}	804 ^b	785 ^b	2840 ^{ab}	3850 ^{ab}	1040 ^b
Manganese (Dissolved)	ug/L	1300	730	RBC	-	-	10200 ^{ab}	799 ^b	757 ^b	2940 ^{ab}	3660 ^{ab}	1010 ^b
Mercury	ug/L	0.77	2	MCL	2.1 ^{ab}	0.57	70.6 ^{ab}	54.0 ^{ab}	33.2 ^{ab}	85.6 ^{ab}	0.66	0.43
Mercury (Dissolved)	ug/L	0.77	2	MCL	0.66	0.10 J	4.1 ^{ab}	10.4 ^{ab}	9.6 ^{ab}	5.5 ^{ab}	0.17 J	0.21
Nickel	ug/L	52	730	RBC	-	-	10.8 J	1.4 U	1.4 U	4.2 J	4.4 J	7.2 J
Nickel (Dissolved)	ug/L	52	730	RBC	-	-	3.8 B	1.7 B	1.7 B	3.9 B	3.6 B	4.7 B
Potassium	ug/L	-	-	-	-	-	34500	73400	75000	62300	13400	8810
Potassium (Dissolved)	ug/L	-	-	-	-	-	34100	71800	72000	57700	12900	8060
Selenium	ug/L	4.6	50	MCL	-	-	2.4 J	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Selenium (Dissolved)	ug/L	4.6	50	MCL	-	-	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Silver	ug/L	0.36	183	RBC	-	-	13.4 ^a	0.85 B ^a	1.2 B ^a	5.7 J ^a	3.1 J ^a	4.7 J ^a
Silver (Dissolved)	ug/L	0.36	183	RBC	-	-	2.0 B ^a	0.69 B ^a	0.61 B ^a	1.3 B ^a	2.1 B ^a	0.81 B ^a
Sodium	ug/L	-	-	-	-	-	226000	234000	239000	280000	710000	54000
Sodium (Dissolved)	ug/L	-	-	-	-	-	228000	231000	231000	276000	706000	56300
Thallium	ug/L	6	2	MCL	-	-	2.3 U	2.3 U	2.3 U	2.3 U	5.6 J ^b	2.3 U
Thallium (Dissolved)	ug/L	6	2	MCL	-	-	3.1 J ^b	2.3 U	2.3 U	2.3 U	5.3 J ^b	4.5 J ^b
Vanadium	ug/L	12	37	RBC	-	-	22.6 J ^a	5.8 J	4.6 J	8.6 J	8.6 J	36.6 J ^a
Vanadium (Dissolved)	ug/L	12	37	RBC	-	-	0.89 U	0.89 U	0.89 U	0.89 U	5.4 J	2.7 J
Zinc	ug/L	118.1	10950	RBC	-	-	21.2 B	16.6 B	14.3 B	22.6 B	5.6 B	84.5
Zinc (Dissolved)	ug/L	118.1	10950	RBC	-	-	3.9 U	7.0 B	16.1 B	16.4 B	5.1 B	26.0 B

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Page 1 of 10

Sample Location:	STATION-G	STATION-G	STATION-G	STATION-G	STATION-H	STATION-H	STATION-H	STATION-I	STATION-I	STATION-I
Sample ID:	SW-7462-020808-MJW-009	SW-7462-020808-MJW-010	SW-7462-030608-RM-01	SW-7462-030608-RM-02	SW-7462-020808-MJW-008	SW-7462-030608-RM-11	SW-7462-030608-RM-12	SW-7462-020808-MJW-007	SW-7462-030608-RM-13	SW-7462-030608-RM-14
Sample Date:	2/8/2008	2/8/2008	3/6/2008	3/6/2008	2/8/2008	3/6/2008	3/6/2008	2/8/2008	3/6/2008	3/6/2008
	(Duplicate)									
Parameters	Units	SW-1								
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	410	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,1,2,2-Tetrachloroethane	ug/L	2400	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,1,2-Trichloroethane	ug/L	87	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,1-Dichloroethane	ug/L	740	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,1-Dichloroethene	ug/L	25	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,2,4-Trichlorobenzene	ug/L	50	1 U	1 U	2	-	1 U	2	-	7.4
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,2-Dichlorobenzene	ug/L	14	1 U	1 U	3	-	3.1	11	-	38
1,2-Dichloroethane	ug/L	980	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,2-Dichloropropane	ug/L	525	1 U	1 U	2 U	-	1 U	2 U	-	1 U
1,3-Dichlorobenzene	ug/L	52	1 U	1 U	1 J	-	1 U	2	-	9.0
1,4-Dichlorobenzene	ug/L	16	1 U	1 U	2 B	-	2.7	6	-	33
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	5 U	5 U	5 U	-	5 U	5 U	-	5 U
2-Hexanone	ug/L	99	5 U	5 U	5 U	-	5 U	5 U	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	5 U	5 U	5 U	-	5 U	5 U	-	5 U
Acetone	ug/L	1500	5 U	5 U	2 J	-	5 U	3 J	-	5 U
Benzene	ug/L	98	0.7 U	0.7 U	0.7 U	-	0.7 U	0.7 U	-	0.7 U
Bromodichloromethane	ug/L	110	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Bromoform	ug/L	320	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Bromomethane (Methyl Bromide)	ug/L	110	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Carbon disulfide	ug/L	0.92	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Carbon tetrachloride	ug/L	9.8	5.2	6.8	4	-	4.9	9	-	1.9
Chlorobenzene	ug/L	64	1 U	1 U	2 U	-	1 U	2 U	-	7.3
Chloroethane	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Chloroform (Trichloromethane)	ug/L	28	3.7	4.8	2	-	3.7	6	-	1 U
Chloromethane (Methyl Chloride)	ug/L	5500	1 U	1 U	2 U	-	1 U	2 U	-	1 U
cis-1,2-Dichloroethene	ug/L	590	1 U	1 U	2 U	-	1 U	2 U	-	1 U
cis-1,3-Dichloropropene	ug/L	0.055	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Cyclohexane	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Dibromochloromethane	ug/L	110	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	110	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Ethylbenzene	ug/L	110	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Isopropylbenzene	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Methyl acetate	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Methyl cyclohexane	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Methyl Tert Butyl Ether	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Methylene chloride	ug/L	1500	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Styrene	ug/L	241	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Tetrachloroethene	ug/L	60	7.5	8.1	7	-	5.7	8	-	3.0
Toluene	ug/L	94	1 U	1 U	2 U	-	1 U	2 U	-	1 U
trans-1,2-Dichloroethene	ug/L	1160	1 U	1 U	2 U	-	1 U	2 U	-	1 U
trans-1,3-Dichloropropene	ug/L	244	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Trichloroethene	ug/L	47	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Trichlorofluoromethane (CFC-11)	ug/L	110	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Vinyl chloride	ug/L	930	1 U	1 U	2 U	-	1 U	2 U	-	1 U
Xylene (total)	ug/L	13	1 U	1 U	2 U	-	1 U	2 U	-	1 U

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Sample Location:		STATION-G		STATION-G		STATION-G		STATION-G		STATION-H		STATION-H		STATION-H		STATION-I		STATION-I		STATION-I	
Sample ID:		SW-7462-020808-MJW-009		SW-7462-020808-MJW-010		SW-7462-030608-RM-01		SW-7462-030608-RM-02		SW-7462-020808-MJW-008		SW-7462-030608-RM-11		SW-7462-030608-RM-12		SW-7462-020808-MJW-007		SW-7462-030608-RM-13		SW-7462-030608-RM-14	
Sample Date:		2/8/2008		2/8/2008 (Duplicate)		3/6/2008		3/6/2008		2/8/2008		3/6/2008		3/6/2008		2/8/2008		3/6/2008		3/6/2008	
Parameters		Units		SW-1																	
Metals																					
Aluminum (Dissolved)		ug/L	87	25.6 B	20.6 B	-	-	10.7 B	-	-	15.6 B	-	-	-	-	-	-	-	-	-	
Antimony (Dissolved)		ug/L	30	2.3 U	2.3 U	-	-	2.3 U	-	-	2.3 U	-	-	-	-	-	-	-	-	-	
Arsenic (Dissolved)		ug/L	150	1.8 U	1.8 U	-	-	1.8 U	-	-	1.8 U	-	-	-	-	-	-	-	-	-	
Barium (Dissolved)		ug/L	438	48.8 J	47.6 J	-	-	48.2 J	-	-	44.2 J	-	-	-	-	-	-	-	-	-	
Beryllium (Dissolved)		ug/L	2.4	0.18 U	0.18 U	-	-	0.18 U	-	-	0.18 U	-	-	-	-	-	-	-	-	-	
Cadmium (Dissolved)		ug/L	0.25	0.32 U	0.47 J	-	-	0.32 U	-	-	0.32 U	-	-	-	-	-	-	-	-	-	
Calcium		ug/L	-	-	-	19100	-	-	-	22800	-	-	-	-	-	-	-	37200	-	-	
Calcium (Dissolved)		ug/L	-	20100	19900	-	-	22100	-	-	39100	-	-	-	-	-	-	-	-	-	
Chromium Total (Dissolved)		ug/L	11	8.7 J	8.4 J	-	-	4.0 B	-	-	1.4 B	-	-	-	-	-	-	-	-	-	
Cobalt (Dissolved)		ug/L	23	1.5 J	1.5 J	-	-	1.9 J	-	-	6.6 J	-	-	-	-	-	-	-	-	-	
Copper (Dissolved)		ug/L	9	0.97 B	1.3 B	-	-	1.6 B	-	-	1.6 B	-	-	-	-	-	-	-	-	-	
Iron (Dissolved)		ug/L	320	71.8 B	24 U	-	-	24.2 U	-	-	28.0 B	-	-	-	-	-	-	-	-	-	
Lead (Dissolved)		ug/L	2.5	1.4 U	1.5 B	-	-	1.4 U	-	-	1.4 U	-	-	-	-	-	-	-	-	-	
Magnesium (Dissolved)		ug/L	-	18300	18100	-	-	20300	-	-	33200	-	-	-	-	-	-	-	-	-	
Manganese		ug/L	1300	-	-	739	-	-	-	1340	-	-	-	-	-	-	-	3490	-	-	
Manganese (Dissolved)		ug/L	1300	841	825	-	-	1240	-	-	4030	-	-	-	-	-	-	-	-	-	
Mercury		ug/L	0.77	7.9	11.6	7.2	8.8	13.3	7.5	12.6	1.4	0.83	0.96	-	-	-	-	-	-	-	
Mercury (Dissolved)		ug/L	0.77	1.0	0.88	0.91	-	0.80	1.3	-	-	-	-	-	-	-	-	-	-	-	
Nickel (Dissolved)		ug/L	52	3.2 J	2.6 J	-	-	3.3 J	-	-	8.0 J	-	-	-	-	-	-	-	-	-	
Potassium		ug/L	-	-	-	112000	-	-	-	139000	-	-	-	-	-	-	-	40200	-	-	
Potassium (Dissolved)		ug/L	-	133000	124000	-	-	150000	-	-	29100	-	-	-	-	-	-	-	-	-	
Selenium (Dissolved)		ug/L	4.6	2.4 U	2.4 U	-	-	4.0 J	-	-	2.4 U	-	-	-	-	-	-	-	-	-	
Silver (Dissolved)		ug/L	0.36	0.41 U	0.41 U	-	-	0.41 U	-	-	0.41 U	-	-	-	-	-	-	-	-	-	
Sodium		ug/L	-	-	-	438000	-	-	-	563000	-	-	-	-	-	-	-	285000	-	-	
Sodium (Dissolved)		ug/L	-	507000	476000	-	-	590000	-	-	301000	-	-	-	-	-	-	-	-	-	
Thallium (Dissolved)		ug/L	6	2.3 U	2.3 U	-	-	2.3 U	-	-	2.3 U	-	-	-	-	-	-	-	-	-	
Vanadium (Dissolved)		ug/L	12	1.2 J	1.3 J	-	-	1.4 J	-	-	0.89 U	-	-	-	-	-	-	-	-	-	
Zinc (Dissolved)		ug/L	118.1	10.1 B	18.8 B	-	-	12.1 B	-	-	9.4 B	-	-	-	-	-	-	-	-	-	
General Chemistry																					
Alkalinity, Total (as CaCO3)		ug/L	-	-	-	85800	-	-	-	104000	-	-	-	-	-	-	-	97500	-	-	
Carbonate		ug/L	-	-	-	1000 U	-	-	-	1000 U	-	-	-	-	-	-	-	1000 U	-	-	
Chloride		ug/L	230000	-	-	696000	-	-	-	900000	-	-	-	-	-	-	-	432000	-	-	
Sulfate		ug/L	-	-	-	128000	-	-	-	163000	-	-	-	-	-	-	-	184000	-	-	
Total Suspended Solids (TSS)		ug/L	-	-	-	4000	-	-	-	9000	-	-	-	-	-	-	-	7000	-	-	

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Sample Location:	STATION-J	STATION-J	STATION-J	STATION-K	STATION-K	STATION-K	STATION-L	STATION-L	STATION-L	STATION-M
Sample ID:	SW-7462-020808-MJW-006	SW-7462-030608-RM-15	SW-7462-030608-RM-16	SW-7462-020808-MJW-005	SW-7462-030608-RM-17	SW-7462-030608-RM-18	SW-7462-020808-MJW-004	SW-7462-030608-RM-19	SW-7462-030608-RM-20	SW-7462-020808-MJW-003
Sample Date:	2/8/2008	3/6/2008	3/6/2008	2/8/2008	3/6/2008	3/6/2008	2/8/2008	3/6/2008	3/6/2008	2/8/2008
Parameters	Units	SW-1								
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	410	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,1,2,2-Tetrachloroethane	ug/L	2400	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,1,2-Trichloroethane	ug/L	87	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,1-Dichloroethane	ug/L	740	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,1-Dichloroethene	ug/L	25	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,2,4-Trichlorobenzene	ug/L	50	23	19	-	52	56	-	29	12
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,2-Dichlorobenzene	ug/L	14	120	110	-	240	260	-	280	120
1,2-Dichloroethane	ug/L	980	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,2-Dichloropropane	ug/L	525	1 U	2 U	-	1 U	2 U	-	1 U	2 U
1,3-Dichlorobenzene	ug/L	52	26	21	-	51	61	-	43	21
1,4-Dichlorobenzene	ug/L	16	160	110	-	300	360	-	440	160
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	5 U	5 U	-	5 U	5 U	-	5 U	5 U
2-Hexanone	ug/L	99	5 U	5 U	-	5 U	5 U	-	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	5 U	5 U	-	5 U	5 U	-	5 U	5 U
Acetone	ug/L	1500	3 J	3 J	-	3 J	4 J	-	3 J	3 J
Benzene	ug/L	98	4.6	4	-	13	19	-	110	60
Bromodichloromethane	ug/L	110	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Bromoform	ug/L	320	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Bromomethane (Methyl Bromide)	ug/L	110	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Carbon disulfide	ug/L	0.92	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Carbon tetrachloride	ug/L	9.8	8.7	5	-	7.1	9	-	3.0	2
Chlorobenzene	ug/L	64	96	57	-	170	310	-	430	150
Chloroethane	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Chloroform (Trichloromethane)	ug/L	28	2.3	1 J	-	2.1	2	-	1.2	2 U
Chloromethane (Methyl Chloride)	ug/L	5500	1 U	2 U	-	1 U	2 U	-	1 U	2 U
cis-1,2-Dichloroethene	ug/L	590	1 U	2 U	-	1 U	2 U	-	1 U	2 U
cis-1,3-Dichloropropene	ug/L	0.055	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Cyclohexane	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Dibromochloromethane	ug/L	110	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Dichlorodifluoromethane (CFC-12)	ug/L	110	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Ethylbenzene	ug/L	110	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Isopropylbenzene	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Methyl acetate	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Methyl cyclohexane	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Methyl Tert Butyl Ether	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Methylene chloride	ug/L	1500	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Styrene	ug/L	241	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Tetrachloroethene	ug/L	60	2.4	2	-	3.4	4	-	1 U	2 U
Toluene	ug/L	94	1 U	2 U	-	1 U	2 U	-	1 U	2 U
trans-1,2-Dichloroethene	ug/L	1160	1 U	2 U	-	1 U	2 U	-	1 U	2 U
trans-1,3-Dichloropropene	ug/L	244	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Trichloroethene	ug/L	47	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Trichlorofluoromethane (CFC-11)	ug/L	110	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	1 U	2 U	-	1 U	2 U	-	1 U	2 U
Vinyl chloride	ug/L	930	1 U	2 U	-	1 U	2 U	-	1.1	1 J
Xylene (total)	ug/L	13	1 U	2 U	-	1 U	2 U	-	1 U	2 U

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Sample Location:	STATION-J		STATION-J		STATION-J		STATION-K		STATION-K		STATION-K		STATION-L		STATION-L		STATION-L		STATION-M	
Sample ID:	SW-7462-020808-MJW-006		SW-7462-030608-RM-15		SW-7462-030608-RM-16		SW-7462-020808-MJW-005		SW-7462-030608-RM-17		SW-7462-030608-RM-18		SW-7462-020808-MJW-004		SW-7462-030608-RM-19		SW-7462-030608-RM-20		SW-7462-020808-MJW-003	
Sample Date:	2/8/2008		3/6/2008		3/6/2008		2/8/2008		3/6/2008		3/6/2008		2/8/2008		3/6/2008		3/6/2008		2/8/2008	
Parameters	Units	SW-1																		
Metals																				
Aluminum (Dissolved)	ug/L	87	20.3 B	-	-	-	8.8 U	-	-	-	8.8 U	-	-	-	-	-	-	-	-	12.3 B
Antimony (Dissolved)	ug/L	30	2.3 U	-	-	-	2.3 U	-	-	-	2.3 U	-	-	-	-	-	-	-	-	2.3 U
Arsenic (Dissolved)	ug/L	150	1.8 U	-	-	-	1.8 U	-	-	-	1.8 U	-	-	-	-	-	-	-	-	1.8 U
Barium (Dissolved)	ug/L	438	49.1 J	-	-	-	41.6 J	-	-	-	40.6 J	-	-	-	-	-	-	-	-	39.9 J
Beryllium (Dissolved)	ug/L	2.4	0.18 U	-	-	-	0.18 U	-	-	-	0.18 U	-	-	-	-	-	-	-	-	0.18 U
Cadmium (Dissolved)	ug/L	0.25	0.32 U	-	-	-	0.38 J	-	-	-	0.32 U	-	-	-	-	-	-	-	-	0.39 J
Calcium	ug/L	-	-	45700	-	-	-	49000	-	-	-	-	53100	-	-	-	-	-	-	-
Calcium (Dissolved)	ug/L	-	47900	-	-	-	54300	-	-	-	52800	-	-	-	-	-	-	-	-	53300
Chromium Total (Dissolved)	ug/L	11	1.6 B	-	-	-	1.4 B	-	-	-	1.8 B	-	-	-	-	-	-	-	-	3.0 B
Cobalt (Dissolved)	ug/L	23	13.0 J	-	-	-	18.5 J	-	-	-	9.9 J	-	-	-	-	-	-	-	-	7.6 J
Copper (Dissolved)	ug/L	9	1.9 B	-	-	-	1.2 B	-	-	-	1.4 B	-	-	-	-	-	-	-	-	1.6 B
Iron (Dissolved)	ug/L	320	27.9 B	-	-	-	61.1 B	-	-	-	45.0 B	-	-	-	-	-	-	-	-	61.6 B
Lead (Dissolved)	ug/L	2.5	1.5 B	-	-	-	1.4 U	-	-	-	1.4 U	-	-	-	-	-	-	-	-	2.0 B
Magnesium (Dissolved)	ug/L	-	34200	-	-	-	41700	-	-	-	38800	-	-	-	-	-	-	-	-	37400
Manganese	ug/L	1300	-	5920	-	-	-	6940	-	-	-	-	9410	-	-	-	-	-	-	-
Manganese (Dissolved)	ug/L	1300	7220	-	-	-	8070	-	-	-	10200	-	-	-	-	-	-	-	-	8680
Mercury	ug/L	0.77	18.8	1.0	-	0.32	0.15 J	0.69	-	0.36	2.1	0.61	2.9	-	-	-	-	-	-	0.52
Mercury (Dissolved)	ug/L	0.77	0.10 U	0.10 U	-	-	0.10 U	0.10 U	-	-	0.10 U	0.10 U	-	-	-	-	-	-	-	0.10 U
Nickel (Dissolved)	ug/L	52	10.0 J	-	-	-	15.2 J	-	-	-	9.4 J	-	-	-	-	-	-	-	-	8.7 J
Potassium	ug/L	-	-	47800	-	-	-	40500	-	-	-	44800	-	-	-	-	-	-	-	-
Potassium (Dissolved)	ug/L	-	38600	-	-	-	36800	-	-	-	37300	-	-	-	-	-	-	-	-	40000
Selenium (Dissolved)	ug/L	4.6	2.4 U	-	-	-	3.2 J	-	-	-	3.2 J	-	-	-	-	-	-	-	-	2.4 U
Silver (Dissolved)	ug/L	0.36	0.96 J	-	-	-	1.3 J	-	-	-	1.3 J	-	-	-	-	-	-	-	-	1.2 J
Sodium	ug/L	-	-	327000	-	-	-	348000	-	-	-	348000	-	-	-	-	-	-	-	-
Sodium (Dissolved)	ug/L	-	348000	-	-	-	426000	-	-	-	340000	-	-	-	-	-	-	-	-	350000
Thallium (Dissolved)	ug/L	6	2.3 U	-	-	-	2.3 U	-	-	-	4.3 J	-	-	-	-	-	-	-	-	2.5 J
Vanadium (Dissolved)	ug/L	12	0.89 U	-	-	-	0.89 U	-	-	-	0.89 U	-	-	-	-	-	-	-	-	1.6 J
Zinc (Dissolved)	ug/L	118.1	16.1 B	-	-	-	24.6 B	-	-	-	9.7 B	-	-	-	-	-	-	-	-	6.7 B
General Chemistry																				
Alkalinity, Total (as CaCO3)	ug/L	-	-	121000	-	-	-	96000	-	-	-	144000	-	-	-	-	-	-	-	-
Carbonate	ug/L	-	-	1000 U	-	-	-	1000 U	-	-	-	1000 U	-	-	-	-	-	-	-	-
Chloride	ug/L	230000	-	488000	-	-	-	571000	-	-	-	501000	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	239000	-	-	-	270000	-	-	-	302000	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	ug/L	-	-	34000	-	-	-	9000	-	-	-	15000	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Sample Location:	STATION-M	STATION-M	STATION-N	STATION-N	STATION-N	STATION-S
Sample ID:	SW-7462-030708-RM-31	SW-7462-030708-RM-32	SW-7462-020808-MJW-002	SW-7462-030708-RM-33	SW-7462-030708-RM-34	SW-7462-030608-RM-03
Sample Date:	3/7/2008	3/7/2008	2/8/2008	3/7/2008	3/7/2008	3/6/2008
Parameters	Units	SW-1				
Volatile Organic Compounds						
1,1,1-Trichloroethane	ug/L	410	2 U	-	1 U	2 U
1,1,2,2-Tetrachloroethane	ug/L	2400	2 U	-	1 U	2 U
1,1,2-Trichloroethane	ug/L	87	2 U	-	1 U	2 U
1,1-Dichloroethane	ug/L	740	2 U	-	1 U	2 U
1,1-Dichloroethene	ug/L	25	2 U	-	1 U	2 U
1,2,4-Trichlorobenzene	ug/L	50	7	-	2.2	2
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	2 U	-	1 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	2 U	-	1 U	2 U
1,2-Dichlorobenzene	ug/L	14	110	-	11	20
1,2-Dichloroethane	ug/L	980	2 U	-	1 U	2 U
1,2-Dichloropropane	ug/L	525	2 U	-	1 U	2 U
1,3-Dichlorobenzene	ug/L	52	19	-	5.2	6
1,4-Dichlorobenzene	ug/L	16	140	-	4.6	13
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	5 U	-	5 U	5 U
2-Hexanone	ug/L	99	5 U	-	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	5 U	-	5 U	5 U
Acetone	ug/L	1500	3 J	-	4 J	3 J
Benzene	ug/L	98	120	-	0.7 U	7
Bromodichloromethane	ug/L	110	2 U	-	1 U	2 U
Bromoform	ug/L	320	2 U	-	1 U	2 U
Bromomethane (Methyl Bromide)	ug/L	110	2 U	-	1 U	2 U
Carbon disulfide	ug/L	0.92	2 U	-	1 U	2 U
Carbon tetrachloride	ug/L	9.8	2 U	-	1 U	2 U
Chlorobenzene	ug/L	64	190	-	1.5	6
Chloroethane	ug/L	-	2 U	-	1 U	2 U
Chloroform (Trichloromethane)	ug/L	28	2 U	-	1 U	2 U
Chloromethane (Methyl Chloride)	ug/L	5500	2 U	-	1 U	2 U
cis-1,2-Dichloroethene	ug/L	590	2 U	-	1 U	2 U
cis-1,3-Dichloropropene	ug/L	0.055	2 U	-	1 U	2 U
Cyclohexane	ug/L	-	2 U	-	1 U	2 U
Dibromochloromethane	ug/L	110	2 U	-	1 U	2 U
Dichlorodifluoromethane (CFC-12)	ug/L	110	2 U	-	1 U	2 U
Ethylbenzene	ug/L	110	2 U	-	1 U	2 U
Isopropylbenzene	ug/L	-	2 U	-	1 U	2 U
Methyl acetate	ug/L	-	2 U	-	1 U	2 U
Methyl cyclohexane	ug/L	-	2 U	-	1 U	2 U
Methyl Tert Butyl Ether	ug/L	-	2 U	-	1 U	2 U
Methylene chloride	ug/L	1500	2 U	-	1 U	2 U
Styrene	ug/L	241	2 U	-	1 U	2 U
Tetrachloroethene	ug/L	60	2 U	-	1 U	2 U
Toluene	ug/L	94	2 U	-	1 U	2 U
trans-1,2-Dichloroethene	ug/L	1160	2 U	-	1 U	2 U
trans-1,3-Dichloropropene	ug/L	244	2 U	-	1 U	2 U
Trichloroethene	ug/L	47	2 U	-	1 U	2 U
Trichlorofluoromethane (CFC-11)	ug/L	110	2 U	-	1 U	2 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	2 U	-	1 U	2 U
Vinyl chloride	ug/L	930	3	-	1 U	2 U
Xylene (total)	ug/L	13	2 U	-	1 U	2 U

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Sample Location:	STATION-M		STATION-M		STATION-N		STATION-N		STATION-N		STATION-S	
Sample ID:	SW-7462-030708-RM-31		SW-7462-030708-RM-32		SW-7462-020808-MJW-002		SW-7462-030708-RM-33		SW-7462-030708-RM-34		SW-7462-030608-RM-03	
Sample Date:	3/7/2008		3/7/2008		2/8/2008		3/7/2008		3/7/2008		3/6/2008	
Parameters	Units	SW-1										
Metals												
Aluminum (Dissolved)	ug/L	87	-	-	32.3 B	-	-	-	-	-	-	-
Antimony (Dissolved)	ug/L	30	-	-	2.3 U	-	-	-	-	-	-	-
Arsenic (Dissolved)	ug/L	150	-	-	1.8 U	-	-	-	-	-	-	-
Barium (Dissolved)	ug/L	438	-	-	38.6 J	-	-	-	-	-	-	-
Beryllium (Dissolved)	ug/L	2.4	-	-	0.96 J	-	-	-	-	-	-	-
Cadmium (Dissolved)	ug/L	0.25	-	-	1.0 J	-	-	-	-	-	-	-
Calcium	ug/L	-	55500	-	-	54400	-	-	-	-	21400	-
Calcium (Dissolved)	ug/L	-	-	-	52100	-	-	-	-	-	-	-
Chromium Total (Dissolved)	ug/L	11	-	-	2.3 B	-	-	-	-	-	-	-
Cobalt (Dissolved)	ug/L	23	-	-	5.6 J	-	-	-	-	-	-	-
Copper (Dissolved)	ug/L	9	-	-	2.7 B	-	-	-	-	-	-	-
Iron (Dissolved)	ug/L	320	-	-	52.3 B	-	-	-	-	-	-	-
Lead (Dissolved)	ug/L	2.5	-	-	2.0 B	-	-	-	-	-	-	-
Magnesium (Dissolved)	ug/L	-	-	-	35700	-	-	-	-	-	-	-
Manganese	ug/L	1300	9630	-	-	9510	-	-	-	-	892	-
Manganese (Dissolved)	ug/L	1300	-	-	7570	-	-	-	-	-	-	-
Mercury	ug/L	0.77	0.63	0.52	0.90	0.86	0.78	11.1	-	-	-	-
Mercury (Dissolved)	ug/L	0.77	0.10 U	-	0.10 U	0.10 U	-	1.3	-	-	-	-
Nickel (Dissolved)	ug/L	52	-	-	8.5 J	-	-	-	-	-	-	-
Potassium	ug/L	-	44500	-	-	42200	-	-	-	-	89100	-
Potassium (Dissolved)	ug/L	-	-	-	39500	-	-	-	-	-	-	-
Selenium (Dissolved)	ug/L	4.6	-	-	2.4 U	-	-	-	-	-	-	-
Silver (Dissolved)	ug/L	0.36	-	-	1.5 J	-	-	-	-	-	-	-
Sodium	ug/L	-	370000	-	-	359000	-	-	-	-	347000	-
Sodium (Dissolved)	ug/L	-	-	-	334000	-	-	-	-	-	-	-
Thallium (Dissolved)	ug/L	6	-	-	4.8 J	-	-	-	-	-	-	-
Vanadium (Dissolved)	ug/L	12	-	-	2.5 J	-	-	-	-	-	-	-
Zinc (Dissolved)	ug/L	118.1	-	-	3.9 U	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, Total (as CaCO3)	ug/L	-	150000	-	-	156000	-	-	-	-	82200	-
Carbonate	ug/L	-	1000 U	-	-	1000 U	-	-	-	-	1000 U	-
Chloride	ug/L	230000	527000	-	-	515000	-	455000	-	-	-	-
Sulfate	ug/L	-	262000	-	-	265000	-	-	-	-	114000	-
Total Suspended Solids (TSS)	ug/L	-	21000	-	-	23000	-	-	-	-	4000 U	-

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Sample Location:	STATION-S		STATION-T		STATION-T		STATION-U		STATION-U		STATION-V		STATION-V		STATION-W		STATION-W		STATION-X	
Sample ID:	SW-7462-030608-RM-04		SW-7462-030608-RM-05		SW-7462-030608-RM-06		SW-7462-030608-RM-07		SW-7462-030608-RM-08		SW-7462-030608-RM-09		SW-7462-030608-RM-10		SW-7462-030708-RM-21		SW-7462-030708-RM-22		SW-7462-030708-RM-23	
Sample Date:	3/6/2008		3/6/2008		3/6/2008		3/6/2008		3/6/2008		3/6/2008		3/6/2008		3/7/2008		3/7/2008		3/7/2008	
Parameters	Units	SW-1																		
Volatile Organic Compounds																				
1,1,1-Trichloroethane	ug/L	410	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,1,2,2-Tetrachloroethane	ug/L	2400	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,1,2-Trichloroethane	ug/L	87	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,1-Dichloroethane	ug/L	740	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,1-Dichloroethene	ug/L	25	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,2,4-Trichlorobenzene	ug/L	50	-	2 U	-	1 J	-	1 J	-	1 J	-	40	-	24	-	24	-	24	-	24
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,2-Dichlorobenzene	ug/L	14	-	1 J	-	5	-	6	-	6	-	210	-	170	-	170	-	170	-	170
1,2-Dichloroethane	ug/L	980	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,2-Dichloropropane	ug/L	525	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
1,3-Dichlorobenzene	ug/L	52	-	2 U	-	1 J	-	1 J	-	1 J	-	74	-	33	-	33	-	33	-	33
1,4-Dichlorobenzene	ug/L	16	-	2 U	-	2 B	-	3 B	-	3 B	-	260	-	190	-	190	-	190	-	190
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U
2-Hexanone	ug/L	99	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U	-	5 U
Acetone	ug/L	1500	-	3 J	-	3 J	-	3 J	-	3 J	-	3 J	-	3 J	-	3 J	-	3 J	-	3 J
Benzene	ug/L	98	-	0.7 U	-	0.7 U	-	0.7 U	-	0.7 U	-	18	-	24	-	24	-	24	-	24
Bromodichloromethane	ug/L	110	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Bromoform	ug/L	320	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Bromomethane (Methyl Bromide)	ug/L	110	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Carbon disulfide	ug/L	0.92	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Carbon tetrachloride	ug/L	9.8	-	5	-	4	-	7	-	7	-	3	-	4	-	4	-	4	-	4
Chlorobenzene	ug/L	64	-	2 U	-	2 U	-	2 U	-	2 U	-	290	-	110	-	110	-	110	-	110
Chloroethane	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Chloroform (Trichloromethane)	ug/L	28	-	4	-	3	-	5	-	5	-	1 J	-	1 J	-	1 J	-	1 J	-	1 J
Chloromethane (Methyl Chloride)	ug/L	5500	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
cis-1,2-Dichloroethene	ug/L	590	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
cis-1,3-Dichloropropene	ug/L	0.055	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Cyclohexane	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Dibromochloromethane	ug/L	110	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Dichlorodifluoromethane (CFC-12)	ug/L	110	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Ethylbenzene	ug/L	110	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Isopropylbenzene	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Methyl acetate	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Methyl cyclohexane	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Methyl Tert Butyl Ether	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Methylene chloride	ug/L	1500	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Styrene	ug/L	241	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Tetrachloroethene	ug/L	60	-	14	-	6	-	7	-	7	-	1 J	-	2	-	2	-	2	-	2
Toluene	ug/L	94	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
trans-1,2-Dichloroethene	ug/L	1160	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
trans-1,3-Dichloropropene	ug/L	244	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Trichloroethene	ug/L	47	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Trichlorofluoromethane (CFC-11)	ug/L	110	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Vinyl chloride	ug/L	930	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U
Xylene (total)	ug/L	13	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U	-	2 U

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

<i>Sample Location:</i>		STATION-S	STATION-T	STATION-T	STATION-U	STATION-U	STATION-V	STATION-V	STATION-W	STATION-W	STATION-X
<i>Sample ID:</i>		SW-7462-030608-RM-04	SW-7462-030608-RM-05	SW-7462-030608-RM-06	SW-7462-030608-RM-07	SW-7462-030608-RM-08	SW-7462-030608-RM-09	SW-7462-030608-RM-10	SW-7462-030708-RM-21	SW-7462-030708-RM-22	SW-7462-030708-RM-23
<i>Sample Date:</i>		3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/7/2008	3/7/2008	3/7/2008
<i>Parameters</i>	<i>Units</i>	SW-1									
<i>Metals</i>											
Aluminum (Dissolved)	ug/L	87	-	-	-	-	-	-	-	-	-
Antimony (Dissolved)	ug/L	30	-	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	ug/L	150	-	-	-	-	-	-	-	-	-
Barium (Dissolved)	ug/L	438	-	-	-	-	-	-	-	-	-
Beryllium (Dissolved)	ug/L	2.4	-	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	ug/L	0.25	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	19200	-	24200	-	24600	-	58300	-	53300
Calcium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	ug/L	11	-	-	-	-	-	-	-	-	-
Cobalt (Dissolved)	ug/L	23	-	-	-	-	-	-	-	-	-
Copper (Dissolved)	ug/L	9	-	-	-	-	-	-	-	-	-
Iron (Dissolved)	ug/L	320	-	-	-	-	-	-	-	-	-
Lead (Dissolved)	ug/L	2.5	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	1300	512	-	1360	-	1390	-	9330	-	8860
Manganese (Dissolved)	ug/L	1300	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.77	12.1	22.2	37.2	7.0	7.6	7.8	12.8	0.27	1.4
Mercury (Dissolved)	ug/L	0.77	-	3.4	-	1.9	-	1.7	-	0.10 U	0.10 U
Nickel (Dissolved)	ug/L	52	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	79600	-	81900	-	105000	-	45900	-	42600
Potassium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (Dissolved)	ug/L	4.6	-	-	-	-	-	-	-	-	-
Silver (Dissolved)	ug/L	0.36	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	273000	-	348000	-	440000	-	430000	-	372000
Sodium (Dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (Dissolved)	ug/L	6	-	-	-	-	-	-	-	-	-
Vanadium (Dissolved)	ug/L	12	-	-	-	-	-	-	-	-	-
Zinc (Dissolved)	ug/L	118.1	-	-	-	-	-	-	-	-	-
<i>General Chemistry</i>											
Alkalinity, Total (as CaCO3)	ug/L	-	89800	-	91000	-	98800	-	122000	-	130000
Carbonate	ug/L	-	1000 U	-	1000 U	-	1000 U	-	1000 U	-	1000 U
Chloride	ug/L	230000	560000	-	597000	-	830000	-	694000	-	543000
Sulfate	ug/L	-	124000	-	139000	-	147000	-	188000	-	256000
Total Suspended Solids (TSS)	ug/L	-	9000	-	5000	-	6000	-	12000	-	20000

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

<i>Sample Location:</i>			STATION-X	STATION-X	STATION-X	STATION-Y	STATION-Y	STATION-Z	STATION-Z
<i>Sample ID:</i>			SW-7462-030708-RM-24	SW-7462-030708-RM-25	SW-7462-030708-RM-26	SW-7462-030708-RM-27	SW-7462-030708-RM-28	SW-7462-030708-RM-29	SW-7462-030708-RM-30
<i>Sample Date:</i>			3/7/2008	3/7/2008	3/7/2008	3/7/2008	3/7/2008	3/7/2008	3/7/2008
				(Duplicate)	(Duplicate)				
<i>Parameters</i>	<i>Units</i>	<i>SW-1</i>							
<i>Volatile Organic Compounds</i>									
1,1,1-Trichloroethane	ug/L	410	-	2 U	-	2 U	-	2 U	-
1,1,2,2-Tetrachloroethane	ug/L	2400	-	2 U	-	2 U	-	2 U	-
1,1,2-Trichloroethane	ug/L	87	-	2 U	-	2 U	-	2 U	-
1,1-Dichloroethane	ug/L	740	-	2 U	-	2 U	-	2 U	-
1,1-Dichloroethene	ug/L	25	-	2 U	-	2 U	-	2 U	-
1,2,4-Trichlorobenzene	ug/L	50	-	26	-	8	-	6	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	2 U	-	2 U	-	2 U	-
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	-	2 U	-	2 U	-	2 U	-
1,2-Dichlorobenzene	ug/L	14	-	170	-	120	-	170	-
1,2-Dichloroethane	ug/L	980	-	2 U	-	2 U	-	2 U	-
1,2-Dichloropropane	ug/L	525	-	2 U	-	2 U	-	2 U	-
1,3-Dichlorobenzene	ug/L	52	-	33	-	20	-	53	-
1,4-Dichlorobenzene	ug/L	16	-	190	-	150	-	360	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	-	5 U	-	5 U	-	5 U	-
2-Hexanone	ug/L	99	-	5 U	-	5 U	-	5 U	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	-	5 U	-	5 U	-	5 U	-
Acetone	ug/L	1500	-	4 J	-	4 J	-	6	-
Benzene	ug/L	98	-	25	-	130	-	1400	-
Bromodichloromethane	ug/L	110	-	2 U	-	2 U	-	2 U	-
Bromoform	ug/L	320	-	2 U	-	2 U	-	2 U	-
Bromomethane (Methyl Bromide)	ug/L	110	-	2 U	-	2 U	-	2 U	-
Carbon disulfide	ug/L	0.92	-	2 U	-	2 U	-	2 U	-
Carbon tetrachloride	ug/L	9.8	-	4	-	2 U	-	2 U	-
Chlorobenzene	ug/L	64	-	120	-	180	-	2600	-
Chloroethane	ug/L	-	-	2 U	-	2 U	-	2 U	-
Chloroform (Trichloromethane)	ug/L	28	-	1 J	-	2 U	-	2 U	-
Chloromethane (Methyl Chloride)	ug/L	5500	-	2 U	-	2 U	-	2 U	-
cis-1,2-Dichloroethene	ug/L	590	-	2 U	-	2 U	-	2 U	-
cis-1,3-Dichloropropene	ug/L	0.055	-	2 U	-	2 U	-	2 U	-
Cyclohexane	ug/L	-	-	2 U	-	2 U	-	2	-
Dibromochloromethane	ug/L	110	-	2 U	-	2 U	-	2 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	110	-	2 U	-	2 U	-	2 U	-
Ethylbenzene	ug/L	110	-	2 U	-	2 U	-	2 U	-
Isopropylbenzene	ug/L	-	-	2 U	-	2 U	-	2 U	-
Methyl acetate	ug/L	-	-	2 U	-	2 U	-	2 U	-
Methyl cyclohexane	ug/L	-	-	2 U	-	2 U	-	2 U	-
Methyl Tert Butyl Ether	ug/L	-	-	2 U	-	2 U	-	2 U	-
Methylene chloride	ug/L	1500	-	2 U	-	2 U	-	2 U	-
Styrene	ug/L	241	-	2 U	-	2 U	-	2 U	-
Tetrachloroethene	ug/L	60	-	2	-	2 U	-	2 U	-
Toluene	ug/L	94	-	2 U	-	2 U	-	2 U	-
trans-1,2-Dichloroethene	ug/L	1160	-	2 U	-	2 U	-	2 U	-
trans-1,3-Dichloropropene	ug/L	244	-	2 U	-	2 U	-	2 U	-
Trichloroethene	ug/L	47	-	2 U	-	2 U	-	2 U	-
Trichlorofluoromethane (CFC-11)	ug/L	110	-	2 U	-	2 U	-	2 U	-
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	2 U	-	2 U	-	2 U	-
Vinyl chloride	ug/L	930	-	2 U	-	3	-	3	-
Xylene (total)	ug/L	13	-	2 U	-	2 U	-	2 U	-

ANALYTICAL RESULTS SUMMARY
SURFACE WATER SAMPLING
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
FEBRUARY MARCH 2008

Sample Location:		STATION-X	STATION-X	STATION-X	STATION-Y	STATION-Y	STATION-Z	STATION-Z
Sample ID:		SW-7462-030708-RM-24	SW-7462-030708-RM-25	SW-7462-030708-RM-26	SW-7462-030708-RM-27	SW-7462-030708-RM-28	SW-7462-030708-RM-29	SW-7462-030708-RM-30
Sample Date:		3/7/2008	3/7/2008	3/7/2008	3/7/2008	3/7/2008	3/7/2008	3/7/2008
			(Duplicate)	(Duplicate)				
Parameters	Units	SW-1						
Metals								
Aluminum (Dissolved)	ug/L	87	-	-	-	-	-	-
Antimony (Dissolved)	ug/L	30	-	-	-	-	-	-
Arsenic (Dissolved)	ug/L	150	-	-	-	-	-	-
Barium (Dissolved)	ug/L	438	-	-	-	-	-	-
Beryllium (Dissolved)	ug/L	2.4	-	-	-	-	-	-
Cadmium (Dissolved)	ug/L	0.25	-	-	-	-	-	-
Calcium	ug/L	-	-	53100	-	56000	-	55000
Calcium (Dissolved)	ug/L	-	-	-	-	-	-	-
Chromium Total (Dissolved)	ug/L	11	-	-	-	-	-	-
Cobalt (Dissolved)	ug/L	23	-	-	-	-	-	-
Copper (Dissolved)	ug/L	9	-	-	-	-	-	-
Iron (Dissolved)	ug/L	320	-	-	-	-	-	-
Lead (Dissolved)	ug/L	2.5	-	-	-	-	-	-
Magnesium (Dissolved)	ug/L	-	-	-	-	-	-	-
Manganese	ug/L	1300	-	8830	-	9710	-	8940
Manganese (Dissolved)	ug/L	1300	-	-	-	-	-	-
Mercury	ug/L	0.77	0.85	1.1	0.76	0.53	0.53	1.3
Mercury (Dissolved)	ug/L	0.77	-	0.10 U	-	0.10 U	-	0.10 U
Nickel (Dissolved)	ug/L	52	-	-	-	-	-	-
Potassium	ug/L	-	-	42000	-	44600	-	44100
Potassium (Dissolved)	ug/L	-	-	-	-	-	-	-
Selenium (Dissolved)	ug/L	4.6	-	-	-	-	-	-
Silver (Dissolved)	ug/L	0.36	-	-	-	-	-	-
Sodium	ug/L	-	-	368000	-	372000	-	370000
Sodium (Dissolved)	ug/L	-	-	-	-	-	-	-
Thallium (Dissolved)	ug/L	6	-	-	-	-	-	-
Vanadium (Dissolved)	ug/L	12	-	-	-	-	-	-
Zinc (Dissolved)	ug/L	118.1	-	-	-	-	-	-
General Chemistry								
Alkalinity, Total (as CaCO3)	ug/L	-	-	122000	-	154000	-	150000
Carbonate	ug/L	-	-	1000 U	-	1000 U	-	1000 U
Chloride	ug/L	230000	-	545000	-	523000	-	529000
Sulfate	ug/L	-	-	257000	-	273000	-	291000
Total Suspended Solids (TSS)	ug/L	-	-	20000	-	29000	-	35000



**CONESTOGA-ROVERS
& ASSOCIATES**

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E-Mail and Hard Copy if Requested

ANALYTICAL DATA ASSESSMENT AND VALIDATION
A-35 CLUSTER GROUNDWATER RESAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
JANUARY 2008

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1.0 INTRODUCTION

The following document details an assessment and validation of analytical results reported by H2M Labs, Inc. (H2M) for groundwater samples collected in support of the PMP Groundwater Program at the Glenn Springs Holdings, Inc. (GSH) Site in Delaware City, Delaware (Site). The samples were collected in January 2008.

The samples were analyzed for the following: total and dissolved mercury and natural attenuation parameters.

A sampling and analysis summary is presented in Table 1. A summary of the analytical data is presented in Table 2. The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods and the documents entitled:

- i) Region III Modification to National Functional Guidelines for Organic Data Review, Multi-Media, Multi-Concentration (OLM01.0-OLM01.9), September 1994; and
- ii) "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses", April 1993.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC results provided. Data assessment was based on information obtained from final data sheets, method blank data, duplicate results, surrogate recoveries, blank/matrix spike recoveries, and field QA/QC samples.

2.0 SAMPLE HOLDING TIMES

The hold time periods are presented in the analytical methods. Most samples were prepared and analyzed within the method required holding times. One sample result was associated with an analysis that exceeded the holding time and was qualified as biased low (see Table 3).

All samples were properly preserved and iced after collection and upon laboratory receipt.

3.0 SURROGATE SPIKE RECOVERIES - ORGANICS

In accordance with the method employed, all samples, blanks, and standards analyzed for dissolved gases were spiked with a surrogate compound prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against laboratory control limits.

All surrogate recoveries met the laboratory criteria demonstrating acceptable analytical accuracy.

4.0 METHOD BLANK ANALYSES

The purpose of assessing the results of method blank analyses is to determine the existence and magnitude of sample contamination introduced during analysis. Method blanks are prepared from deionized water and analyzed as samples.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and all data were non-detect, demonstrating that laboratory contamination was not a factor for these analyses.

5.0 LABORATORY CONTROL SAMPLE (LCS)/BLANK SPIKE (BS) ANALYSES

LCS or BS samples are prepared and analyzed to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. LCS or BS samples were prepared and analyzed for all applicable parameters. The results were acceptable for all analytes spiked, demonstrating good analytical accuracy.

6.0 MATRIX SPIKE (MS) ANALYSES - INORGANICS

To evaluate the effects of sample matrices on the digestion, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The established control limits for inorganic MS recoveries are 75 to 125 percent. Spike recoveries are not assessed for samples having original concentrations significantly greater than the spike concentration (>four times) or when the spike concentration is diluted out due to matrix interference.

All MS recoveries met the above criteria, demonstrating good analytical accuracy.

7.0 DUPLICATE SAMPLE ANALYSES - INORGANICS

For inorganics, analytical precision is evaluated based on the analysis of duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory at the proper frequency.

Laboratory duplicate results are assessed against a maximum relative percent difference (RPD) of 20 percent. Metals sample results less than five times the Contract Required Detection Limit (CRDL) are evaluated based on the difference between the sample and duplicate results, which should not exceed the CRDL.

The duplicate analyses met the above criteria except for the standard plate count analysis. The associated detected sample result was qualified as estimated (see Table 4).

8.0 FIELD QA/QC - RINSE BLANK ANALYSES

One rinse blank was submitted for analysis, as identified in Table 1. Total and dissolved mercury were present in the blank. Detected sample results with concentrations similar to the blank concentrations were qualified with a "B" (see Table 5).

9.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data produced by H2M are acceptable with the specific qualifications noted herein.

TABLES

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
A-35 CLUSTER GROUNDWATER RESAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
JANUARY 2008

<i>Sample ID</i>	<i>Location ID</i>	<i>Collection Date (mm/dd/yy)</i>	<i>Collection Time (hr:min)</i>	<i>Parameters</i>			<i>Comments</i>
				<i>Total Mercury</i>	<i>Dissolved Mercury</i>	<i>Natural Attenuation</i>	
WG-7462-012208-RM-01	A-35S	01/22/08	11:05	X	X	X	
WG-7462-012208-RM-02	A-35D	01/22/08	12:15	X	X	X	
WG-7462-012208-RM-03	-	01/22/08	10:35	X	X		Rinse Blank

Note:

- Not applicable.

TABLE 2
ANAYLTICAL RESULTS SUMMARY
A-35 CLUSTER GROUNDWATER RESAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
JANUARY 2008

<i>Parameters</i>	<i>Units</i>	<i>Sample Location</i>	
		<i>Sample ID</i>	<i>Sample Date</i>
		<i>Sample ID</i>	<i>Sample Date</i>
		A-35D	A-35S
		WG-7462-012208-RM-02	WG-7462-012208-RM-01
		1/22/2008	1/22/2008
<i>Metals</i>			
Mercury	ug/L	36600	57.0 B
Mercury (Dissolved)	ug/L	25800	39.2 B
<i>Dissolved Gases</i>			
Ethane	ug/L	1 U	1 U
Ethene	ug/L	1 U	1 U
Methane	ug/L	20	26
<i>General Chemistry</i>			
Alkalinity, Total (As CaCO ₃)	mg/L	66.2	8.4
Ammonia	mg/L	0.1 U	0.32
Calcium Carbonate	mg/L	2800	380
Carbon dioxide	mg/L	7.00	12.3
Chloride	mg/L	11700	1990
Nitrate (as N)	mg/L	1.90	1.64
Nitrite (as N)	mg/L	0.1 U	0.1 U
Standard plate count	cfu/mL	10 U	65 JL
Sulfate	mg/L	700	67.5
Sulfide	mg/L	2 U	2 U
Total Dissolved Solids (TDS)	mg/L	16200	3240
Total Kjeldahl Nitrogen (TKN)	mg/L	0.41	0.67
Total Organic Carbon (TOC)	mg/L	1.4	1 U
Total Suspended Solids (TSS)	mg/L	4	6

Notes:

- B Analyte detected in the associated blank at a comparable level.
- U Not detected.
- JL Estimated concentration, low bias.

TABLE 3
 QUALIFIED SAMPLE RESULTS DUE TO HOLDING TIME EXCEEDANCES
 A-35 CLUSTER GROUNDWATER RESAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 JANUARY 2008

<i>Parameter</i>	<i>Holding Time (Hours)</i>	<i>Holding Time Criteria (Hours)</i>	<i>Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
Standard Plate Count	25	24	GW-7462-012208-RM-01	65	CFU/mL	L

Note:

L Reported value may be biased low.

TABLE 4
 QUALIFIED SAMPLE RESULTS DUE TO POOR LABORATORY DUPLICATE PRECISION
 A-35 CLUSTER GROUNDWATER RESAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 JANUARY 2008

<i>Analyte</i>	<i>Sample I.D.</i>	<i>RPD</i>	<i>RPD Control Limit</i>	<i>Associated Sample I.D.</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
Standard plate count	GW-7462-012208-RM-01	60	0-20	GW-7462-012208-RM-01	65	CFU/mL	J

Notes:

J Estimated.

RPD Relative Percent Difference.

TABLE 5
 QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE RINSE BLANK
 A-35 CLUSTER GROUNDWATER RESAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 JANUARY 2008

<i>Parameter</i>	<i>Rinse Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Qualified Sample Result</i>	<i>Units</i>
Metals	01/22/08	Mercury	25.6	GW-7462-012208-RM-01	57.0	57.0 B	µg/L
Metals	01/22/08	Mercury (Dissolved)	18.0	GW-7462-012208-RM-01	39.2	39.2 B	µg/L

Note:

B Analyte detected in the associated blank at a comparable level.



**CONESTOGA-ROVERS
& ASSOCIATES**

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c.c.: Paul McMahon
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ANALYTICAL DATA ASSESSMENT AND VALIDATION
MERCURY SPLIT SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008


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TABLE 2	ANALYTICAL RESULTS SUMMARY

1.0 INTRODUCTION

The following document details an assessment and validation of analytical results reported by H2M Labs, Inc. (H2M) and TestAmerica Pittsburgh (TA) for groundwater samples collected in support of the PMP Groundwater Program at the Glenn Springs Holdings, Inc. (GSH) Site in Delaware City, Delaware (Site). The samples were collected in February 2008 and split between the laboratories to verify elevated mercury concentrations in location A-35D.

The samples were analyzed for the following: total and dissolved mercury and chloride.

A sampling and analysis summary is presented in Table 1. A summary of the analytical data is presented in Table 2. The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods and the document "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses", April 1993.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC results provided. Data assessment was based on information obtained from final data sheets, method blank data, duplicate results, blank/matrix spike recoveries, and field QA/QC samples.

2.0 SAMPLE HOLDING TIMES

The hold time periods are presented in the analytical methods. All samples were prepared and analyzed within the method required holding times.

All samples were properly preserved and iced after collection and upon laboratory receipt.

3.0 METHOD BLANK ANALYSES

The purpose of assessing the results of method blank analyses is to determine the existence and magnitude of sample contamination introduced during analysis. Method blanks are prepared from deionized water and analyzed as samples.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and all data were non-detect, demonstrating that laboratory contamination was not a factor for these analyses.

4.0 LABORATORY CONTROL SAMPLE (LCS)/BLANK SPIKE (BS) ANALYSES

LCS or BS samples are prepared and analyzed to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. LCS or BS samples were prepared and analyzed for all applicable parameters. The results were acceptable for all analytes spiked, demonstrating good analytical accuracy.

5.0 MATRIX SPIKE (MS) ANALYSES - INORGANICS

To evaluate the effects of sample matrices on the digestion, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The established control limits for inorganic MS recoveries are 75 to 125 percent. Spike recoveries are not assessed for samples having original concentrations significantly greater than the spike concentration (>four times) or when the spike concentration is diluted out due to matrix interference.

All MS recoveries met the above criteria, demonstrating good analytical accuracy.

6.0 DUPLICATE SAMPLE ANALYSES - INORGANICS

For inorganics, analytical precision is evaluated based on the analysis of duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory at the proper frequency.

Laboratory duplicate results are assessed against a maximum relative percent difference (RPD) of 20 percent. Metals sample results less than five times the Contract Required Detection Limit (CRDL) are evaluated based on the difference between the sample and duplicate results, which should not exceed the CRDL.

The duplicate analyses met the above criteria demonstrating acceptable laboratory precision.

7.0 FIELD QA/QC - EQUIPMENT BLANK ANALYSES

One equipment blank was submitted for analysis, as identified in Table 1. Total and dissolved mercury were present in the blank for both laboratories. The TA equipment blank results were very low in concentration, and all associated sample results were significantly greater in concentration and were not impacted. H2M reported elevated mercury results for the equipment blank. Based on the agreement of the mercury results for the investigative samples between the laboratories, and the low rinse blank results reported by TA, it is suspected that the H2M equipment blank results are erroneous. No qualification of the data was performed on this basis.

8.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data produced by H2M and TA are acceptable without qualification.

TABLES

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
MERCURY SPLIT SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample ID	Location ID	Analysis/Parameters					Comments
		Collection Date (mm/dd/yy)	Collection Time (hr:min)	Total Mercury	Dissolved Mercury	Chloride	
WG-7462-022508-RM-01	A-34D	2/25/08	10:45	X	X	X	
WG-7462-022508-RM-02	A-40D	2/25/08	12:10	X	X	X	
WG-7462-022508-RM-03	A-35S	2/25/08	13:20	X	X	X	
WG-7462-022508-RM-04	A-35D	2/25/08	14:30	X	X	X	MS/MSD/Duplicate
EB-7462-022508-RM-05	-	2/25/08	12:40	X	X	X	Equipment Blank

Notes:

- Not applicable.
MS Matrix Spike.
MSD Matrix Spike Duplicate.

TABLE 2
ANALYTICAL RESULTS SUMMARY
MERCURY SPLIT SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

<i>Sample Location:</i>		A-34D	A-34D	A-35D	A-35D
<i>Sample Id:</i>		WG-7462-022508-RM-01	WG-7462-022508-RM-01	WG-7462-022508-RM-04	WG-7462-022508-RM-04
<i>Laboratory:</i>		H2M	TestAmerica	H2M	TestAmerica
<i>Sample Date:</i>		2/25/2008	2/25/2008	2/25/2008	2/25/2008
<i>Parameters</i>	<i>Units</i>				
<i>Metals</i>					
Mercury	ug/L	247	325	48700	62100
Mercury (Dissolved)	ug/L	233	307	46700	60100
<i>General Chemistry</i>					
Chloride	mg/L	4110	4280	8940	8090

<i>Sample Location:</i>		A-35S	A-35S	A-40D	A-40D
<i>Sample Id:</i>		WG-7462-022508-RM-03	WG-7462-022508-RM-03	WG-7462-022508-RM-02	WG-7462-022508-RM-02
<i>Laboratory:</i>		H2M	TestAmerica	H2M	TestAmerica
<i>Sample Date:</i>		2/25/2008	2/25/2008	2/25/2008	2/25/2008
<i>Parameters</i>	<i>Units</i>				
<i>Metals</i>					
Mercury	ug/L	40.0	55.3	72.0	98.1
Mercury (Dissolved)	ug/L	36.6	43.7	47.9	60.7
<i>General Chemistry</i>					
Chloride	mg/L	1350	1310	6040	5970



**CONESTOGA-ROVERS
& ASSOCIATES**

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ANALYTICAL DATA ASSESSMENT AND VALIDATION
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

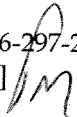
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TABLE 4	QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
TABLE 5	QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE RECOVERIES
TABLE 6	QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE FIELD BLANKS

1.0 INTRODUCTION

The following document details an assessment and validation of analytical results reported by H2M Labs, Inc. (H2M) for groundwater samples collected in support of the PMP Quarterly Groundwater Program at the Glenn Springs Holdings, Inc. (GSH) Site in Delaware City, Delaware (Site). The samples were collected in February 2008.

The samples were analyzed for the following: target compound list (TCL) volatile organic compounds (VOCs), total and dissolved target analyte list (TAL) metals, and total and dissolved mercury.

A sampling and analysis summary is presented in Table 1. A summary of the analytical data is presented in Table 2. The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods and the documents entitled:

- i) Region III Modification to National Functional Guidelines for Organic Data Review, Multi-Media, Multi-Concentration (OLM01.0-OLM01.9), September 1994; and
- ii) Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, April 1993.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC results provided. Data assessment was based on information obtained from final data sheets, method blank data, duplicate results, surrogate recoveries, blank/matrix spike recoveries, and field QA/QC samples.

2.0 SAMPLE HOLDING TIMES

The hold time periods are presented in the analytical methods. All samples were prepared and analyzed within the method required holding times.

All samples were properly preserved and cooled after collection.

3.0 SURROGATE SPIKE RECOVERIES - VOCs

In accordance with the method employed, all samples, blanks, and standards analyzed for VOCs were spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits.

Most surrogate recoveries were acceptable, demonstrating good analytical efficiency. High surrogate recoveries were reported for one sample, and the associated detected results were qualified as estimated (see Table 3).

4.0 METHOD BLANK ANALYSES

The purpose of assessing the results of method blank analyses is to determine the existence and magnitude of sample contamination introduced during analysis. Method blanks are prepared from deionized water and analyzed as samples.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and the data were non-detect with the exception of some metals. All associated sample results for these analytes with concentrations similar to the blank were qualified with a "B" (see Table 4).

5.0 LABORATORY CONTROL SAMPLE (LCS)/BLANK SPIKE (BS) ANALYSES

LCS or BS samples are prepared and analyzed to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. LCS or BS samples were prepared and analyzed for all applicable parameters. The results were acceptable for all analytes spiked demonstrating good analytical accuracy.

6.0 MATRIX SPIKE (MS) ANALYSES - METALS

To evaluate the effects of sample matrices on the digestion, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The established control limits for inorganic MS recoveries are 75 to 125 percent. Spike recoveries are not assessed for samples having original concentrations significantly greater than the spike concentration (>four times).

All MS recoveries met the above criteria except for one high aluminum recovery. Associated detected sample results were qualified as estimated (see Table 5).

7.0 DUPLICATE SAMPLE ANALYSES - METALS

For inorganics, analytical precision is evaluated based on the analysis of duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory at the proper frequency.

Laboratory duplicate results are assessed against a maximum relative percent difference (RPD) of 20 percent. Metals sample results less than five times the Contract Required Detection Limit (CRDL) are evaluated based on the difference between the sample and duplicate results, which should not exceed the CRDL.

The duplicate analyses met the above criteria, demonstrating good laboratory precision.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES - VOCs

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of organic parameters, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The laboratory prepared the spike samples in duplicate, to assess analytical precision. The laboratory established the MS/MSD control limits internally. Per the "Guidelines", qualification of data is not required if the sample results exceed four times the spike concentration added.

Most MS/MSD analyses performed were acceptable, demonstrating good analytical accuracy and precision. High toluene MS/MSD recoveries were reported, but the associated sample result was non-detect and was not impacted.

9.0 FIELD QA/QC

9.1 FIELD BLANK ANALYSES

Two field blanks were submitted for analysis, as identified in Table 1. Several metals were present in the blanks. Detected sample results with concentrations similar to the blank concentrations were qualified with a "B" (see Table 6).

9.2 TRIP BLANK ANALYSES

Four trip blanks were submitted for VOC analyses. Most trip blank results were non-detect for the compounds of interest. Acetone was detected in one trip blank, but the associated sample results were non-detect and were not impacted.

9.3 FIELD DUPLICATE ANALYSES

To assess the analytical and sampling precision, two field duplicate samples were collected and submitted "blind" to the laboratory, as indicated in Table 1. All results were comparable, demonstrating good field and laboratory precision.

10.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data produced by H2M are acceptable with the specific qualifications noted herein.

TABLES

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
QUARTERLY PMP GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters				Comments
				VOCs	Total Metals	Dissolved Metals	Total Mercury	
FB-7462-020808-MJW--001	-	02/08/08	12:30	X		X	X	Field Blank
SW-7462-020808-MJW-002	Station N	02/08/08	13:30	X		X	X	
SW-7462-020808-MJW-003	Station M	02/08/08	13:40	X		X	X	
SW-7462-020808-MJW-004	Station L	02/08/08	13:50	X		X	X	
SW-7462-020808-MJW-005	Station K	02/08/08	14:00	X		X	X	
SW-7462-020808-MJW-006	Station J	02/08/08	14:10	X		X	X	
SW-7462-020808-MJW-007	Station I	02/08/08	14:20	X		X	X	
SW-7462-020808-MJW-008	Station H	02/08/08	14:30	X		X	X	MS/MSD/Duplicate
SW-7462-020808-MJW-009	Station G	02/08/08	14:40	X		X	X	
SW-7462-020808-MJW-010	Station G	02/08/08	14:50	X		X	X	Duplicate of SW-7462-020808-MJW-009
Trip Blank	-	02/08/08	-	X				Trip Blank
GW-7462-020508-MJW-01	A-49	02/05/08	10:45				X	
GW-7462-020508-MJW-02	A-44	02/05/08	12:10				X	
GW-7462-020508-MJW-03	A-50	02/05/08	13:45				X	
GW-7462-020508-MJW-04	A-27D	02/05/08	16:15				X	
RB-7462-020508-MJW-005	-	02/05/08	16:15		X	X	X	Field Blank
GW-7462-020608-MJW-006	A-27S	02/06/08	10:40				X	
GW-7462-020608-MJW-007	A-66D	02/06/08	11:25				X	
GW-7462-020608-MJW-008	A-66S	02/06/08	12:15				X	
GW-7462-020608-MJW-009	A-67D	02/06/08	13:55				X	
GW-7462-020608-MJW-010	A-67S	02/06/08	14:45				X	
GW-7462-020608-MJW-011	A-69	02/06/08	15:50	X	X	X	X	MS/MSD/Duplicate
Trip Blank	-	02/06/08	-	X				Trip Blank
GW-7462-020708-012	A-70	02/07/08	10:40	X	X	X	X	
GW-7462-020708-013	A-70	02/07/08	10:45	X	X	X	X	Duplicate of GW-7462-020708-012
GW-7462-020708-014	A-71	02/07/08	11:55	X	X	X	X	
GW-7462-020708-015	A-75	02/07/08	13:05	X	X	X	X	
GW-7462-020708-016	A-65	02/07/08	14:20	X	X	X	X	
GW-7462-020708-017	A-77	02/07/08	15:35	X	X	X	X	
Trip Blank	-	02/07/08	-	X				Trip Blank
GW-7462-020808-MJW-018	System Effluent	02/08/08	10:25	X	X	X	X	
GW-7462-020808-MJW-019	Carbon Influent	02/08/08	10:35	X	X	X	X	
Trip Blank	-	02/08/08	-	X				Trip Blank

Notes:

- Not applicable.
MS Matrix Spike.
MSD Matrix Spike Duplicate.
VOCs Volatile Organic Compounds.

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		A-27D	A-27S	A-44	A-49	A-50	A-65
Sample ID:		GW-7462-020508-MJW-04	GW-7462-020608-MJW-006	GW-7462-020508-MJW-02	GW-7462-020508-MJW-01	GW-7462-020508-MJW-03	GW-7462-020708-016
Sample Date:		2/5/2008	2/6/2008	2/5/2008	2/5/2008	2/5/2008	2/7/2008
Parameters	Units						
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	1 U
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	1 U
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	1 U
1,1-Dichloroethane	ug/L	-	-	-	-	-	1 U
1,1-Dichloroethene	ug/L	-	-	-	-	-	1 U
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	27
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	-	-	-	-	-	1 U
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	1 U
1,2-Dichloroethane	ug/L	-	-	-	-	-	100
1,2-Dichloropropane	ug/L	-	-	-	-	-	1 U
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	1 U
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	9
2-Butanone (Methyl Ethyl Ketone)	ug/L	-	-	-	-	-	110
2-Hexanone	ug/L	-	-	-	-	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/L	-	-	-	-	-	5 U
Acetone	ug/L	-	-	-	-	-	5 U
Benzene	ug/L	-	-	-	-	-	5 U
Bromodichloromethane	ug/L	-	-	-	-	-	62
Bromoform	ug/L	-	-	-	-	-	1 U
Bromomethane (Methyl Bromide)	ug/L	-	-	-	-	-	1 U
Carbon disulfide	ug/L	-	-	-	-	-	1 U
Carbon tetrachloride	ug/L	-	-	-	-	-	1 U
Chlorobenzene	ug/L	-	-	-	-	-	1 U
Chloroethane	ug/L	-	-	-	-	-	350
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	1 U
Chloromethane (Methyl Chloride)	ug/L	-	-	-	-	-	1 U
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	1 U
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	1 U
Cyclohexane	ug/L	-	-	-	-	-	1 U
Dibromochloromethane	ug/L	-	-	-	-	-	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	1 U
Ethylbenzene	ug/L	-	-	-	-	-	1 U
Isopropylbenzene	ug/L	-	-	-	-	-	1 U
Methyl acetate	ug/L	-	-	-	-	-	1 U
Methyl cyclohexane	ug/L	-	-	-	-	-	1 U
Methyl Tert Butyl Ether	ug/L	-	-	-	-	-	1 U
Methylene chloride	ug/L	-	-	-	-	-	1 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		A-27D	A-27S	A-44	A-49	A-50	A-65
Sample ID:		GW-7462-020508-MJW-04	GW-7462-020608-MJW-006	GW-7462-020508-MJW-02	GW-7462-020508-MJW-01	GW-7462-020508-MJW-03	GW-7462-020708-016
Sample Date:		2/5/2008	2/6/2008	2/5/2008	2/5/2008	2/5/2008	2/7/2008
Parameters	Units						
Volatiles (Con'td.)							
Styrene	ug/L	-	-	-	-	-	1 U
Tetrachloroethene	ug/L	-	-	-	-	-	1 U
Toluene	ug/L	-	-	-	-	-	1 U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	1 U
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	1 U
Trichloroethene	ug/L	-	-	-	-	-	1 U
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	1 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	-	-	-	1 U
Vinyl chloride	ug/L	-	-	-	-	-	1 U
Xylene (total)	ug/L	-	-	-	-	-	1 U
Metals							
Aluminum	ug/L	-	-	-	-	-	1070 K
Aluminum (Dissolved)	ug/L	-	-	-	-	-	9.8 B
Antimony	ug/L	-	-	-	-	-	2.6 J
Antimony (Dissolved)	ug/L	-	-	-	-	-	2.3 J
Arsenic	ug/L	-	-	-	-	-	27.8
Arsenic (Dissolved)	ug/L	-	-	-	-	-	13.5
Barium	ug/L	-	-	-	-	-	521
Barium (Dissolved)	ug/L	-	-	-	-	-	485
Beryllium	ug/L	-	-	-	-	-	0.18 U
Beryllium (Dissolved)	ug/L	-	-	-	-	-	0.18 U
Cadmium	ug/L	-	-	-	-	-	1.8 B
Cadmium (Dissolved)	ug/L	-	-	-	-	-	1.6 B
Calcium	ug/L	-	-	-	-	-	53300
Calcium (Dissolved)	ug/L	-	-	-	-	-	50500
Chromium Total	ug/L	-	-	-	-	-	24.8
Chromium Total (Dissolved)	ug/L	-	-	-	-	-	0.57 U
Cobalt	ug/L	-	-	-	-	-	2.8 J
Cobalt (Dissolved)	ug/L	-	-	-	-	-	2.1 J
Copper	ug/L	-	-	-	-	-	6.6 B
Copper (Dissolved)	ug/L	-	-	-	-	-	0.90 J
Iron	ug/L	-	-	-	-	-	91800
Iron (Dissolved)	ug/L	-	-	-	-	-	77600
Lead	ug/L	-	-	-	-	-	1.4 U
Lead (Dissolved)	ug/L	-	-	-	-	-	1.4 U
Magnesium	ug/L	-	-	-	-	-	18100
Magnesium (Dissolved)	ug/L	-	-	-	-	-	17100
Manganese	ug/L	-	-	-	-	-	738

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY GROUNDWATER PMP SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

Sample Location:		A-27D	A-27S	A-44	A-49	A-50	A-65
Sample ID:		GW-7462-020508-MJW-04	GW-7462-020608-MJW-006	GW-7462-020508-MJW-02	GW-7462-020508-MJW-01	GW-7462-020508-MJW-03	GW-7462-020708-016
Sample Date:		2/5/2008	2/6/2008	2/5/2008	2/5/2008	2/5/2008	2/7/2008
Parameters	Units						
<i>Metals (Cont'd.)</i>							
Manganese (Dissolved)	ug/L	-	-	-	-	-	679
Mercury	ug/L	24.3	0.89	5.4	16.0	28.1	0.51
Mercury (Dissolved)	ug/L	25.0	0.26	1.0	3.7	16.4	0.14 J
Nickel	ug/L	-	-	-	-	-	10.6 J
Nickel (Dissolved)	ug/L	-	-	-	-	-	3.1 B
Potassium	ug/L	-	-	-	-	-	5190
Potassium (Dissolved)	ug/L	-	-	-	-	-	4800 J
Selenium	ug/L	-	-	-	-	-	2.4 U
Selenium (Dissolved)	ug/L	-	-	-	-	-	2.4 U
Silver	ug/L	-	-	-	-	-	0.41 U
Silver (Dissolved)	ug/L	-	-	-	-	-	1.0 B
Sodium	ug/L	-	-	-	-	-	31000
Sodium (Dissolved)	ug/L	-	-	-	-	-	30400
Thallium	ug/L	-	-	-	-	-	2.3 U
Thallium (Dissolved)	ug/L	-	-	-	-	-	3.0 J
Vanadium	ug/L	-	-	-	-	-	11.4 J
Vanadium (Dissolved)	ug/L	-	-	-	-	-	2.0 J
Zinc	ug/L	-	-	-	-	-	22.6 B
Zinc (Dissolved)	ug/L	-	-	-	-	-	14.0 B

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		A-66D	A-66S	A-67D	A-67S	A-69	A-70
Sample ID:		GW-7462-020608-MJW-007	GW-7462-020608-MJW-008	GW-7462-020608-MJW-009	GW-7462-020608-MJW-010	GW-7462-020608-MJW-011	GW-7462-020708-012
Sample Date:		2/6/2008	2/6/2008	2/6/2008	2/6/2008	2/6/2008	2/7/2008
Parameters	Units						
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	-	-	-	-	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	1 U	1 U
1,1,2-Trichloroethane	ug/L	-	-	-	-	1 U	1 U
1,1-Dichloroethane	ug/L	-	-	-	-	1 U	1 U
1,1-Dichloroethene	ug/L	-	-	-	-	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	1 U	1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	330	200
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	-	-	-	-	1 U	1 U
1,2-Dichlorobenzene	ug/L	-	-	-	-	1 U	1 U
1,2-Dichloroethane	ug/L	-	-	-	-	3200	2100
1,2-Dichloropropane	ug/L	-	-	-	-	1 U	1 U
1,3-Dichlorobenzene	ug/L	-	-	-	-	1 U	1 U
1,4-Dichlorobenzene	ug/L	-	-	-	-	240	270
2-Butanone (Methyl Ethyl Ketone)	ug/L	-	-	-	-	6100	2900
2-Hexanone	ug/L	-	-	-	-	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/L	-	-	-	-	5 U	5 U
Acetone	ug/L	-	-	-	-	5 U	5 U
Benzene	ug/L	-	-	-	-	5 U	5 U
Bromodichloromethane	ug/L	-	-	-	-	830	2900
Bromoform	ug/L	-	-	-	-	1 U	1 U
Bromomethane (Methyl Bromide)	ug/L	-	-	-	-	1 U	1 U
Carbon disulfide	ug/L	-	-	-	-	1 U	1 U
Carbon tetrachloride	ug/L	-	-	-	-	1 U	1 U
Chlorobenzene	ug/L	-	-	-	-	21	1 U
Chloroethane	ug/L	-	-	-	-	8700	7900
Chloroform (Trichloromethane)	ug/L	-	-	-	-	1 U	1 U
Chloromethane (Methyl Chloride)	ug/L	-	-	-	-	3	3
cis-1,2-Dichloroethene	ug/L	-	-	-	-	1 U	1 U
cis-1,3-Dichloropropene	ug/L	-	-	-	-	1 U	1 U
Cyclohexane	ug/L	-	-	-	-	1 U	1 U
Dibromochloromethane	ug/L	-	-	-	-	1 U	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	1 U	1 U
Ethylbenzene	ug/L	-	-	-	-	1 U	1 U
Isopropylbenzene	ug/L	-	-	-	-	1 U	3
Methyl acetate	ug/L	-	-	-	-	1 U	1 U
Methyl cyclohexane	ug/L	-	-	-	-	1 U	1 U
Methyl Tert Butyl Ether	ug/L	-	-	-	-	1 U	1 U
Methylene chloride	ug/L	-	-	-	-	1 U	1 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		A-66D	A-66S	A-67D	A-67S	A-69	A-70
Sample ID:		GW-7462-020608-MJW-007	GW-7462-020608-MJW-008	GW-7462-020608-MJW-009	GW-7462-020608-MJW-010	GW-7462-020608-MJW-011	GW-7462-020708-012
Sample Date:		2/6/2008	2/6/2008	2/6/2008	2/6/2008	2/6/2008	2/7/2008
Parameters	Units						
Volatiles (Con'td.)							
Styrene	ug/L	-	-	-	-	1 U	1 U
Tetrachloroethene	ug/L	-	-	-	-	5	3
Toluene	ug/L	-	-	-	-	1 U	1
trans-1,2-Dichloroethene	ug/L	-	-	-	-	1 U	1 U
trans-1,3-Dichloropropene	ug/L	-	-	-	-	1 U	1 U
Trichloroethene	ug/L	-	-	-	-	1 U	1 U
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	1 U	3
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	-	-	1 U	1 U
Vinyl chloride	ug/L	-	-	-	-	1 U	1 U
Xylene (total)	ug/L	-	-	-	-	14	28
						1 U	5
Metals							
Aluminum	ug/L	-	-	-	-	4730 K	1750 K
Aluminum (Dissolved)	ug/L	-	-	-	-	8.8 U	16.3 B
Antimony	ug/L	-	-	-	-	2.3 U	2.3 U
Antimony (Dissolved)	ug/L	-	-	-	-	2.3 U	2.3 U
Arsenic	ug/L	-	-	-	-	5.1 J	1.8 U
Arsenic (Dissolved)	ug/L	-	-	-	-	1.8 U	1.8 U
Barium	ug/L	-	-	-	-	40.5 J	7.0 J
Barium (Dissolved)	ug/L	-	-	-	-	25.9 J	4.8 J
Beryllium	ug/L	-	-	-	-	0.81 B	0.20 B
Beryllium (Dissolved)	ug/L	-	-	-	-	0.18 U	0.18 U
Cadmium	ug/L	-	-	-	-	1.3 B	0.32 U
Cadmium (Dissolved)	ug/L	-	-	-	-	0.32 U	0.32 U
Calcium	ug/L	-	-	-	-	88900	27600
Calcium (Dissolved)	ug/L	-	-	-	-	88600	27800
Chromium Total	ug/L	-	-	-	-	14.9	2.3 J
Chromium Total (Dissolved)	ug/L	-	-	-	-	0.93 B	0.60 B
Cobalt	ug/L	-	-	-	-	8.0 J	2.2 J
Cobalt (Dissolved)	ug/L	-	-	-	-	3.4 J	1.6 J
Copper	ug/L	-	-	-	-	11.4 J	4.5 B
Copper (Dissolved)	ug/L	-	-	-	-	0.87 U	0.87 U
Iron	ug/L	-	-	-	-	30200	5080
Iron (Dissolved)	ug/L	-	-	-	-	703	127 B
Lead	ug/L	-	-	-	-	6.1 B	3.1 B
Lead (Dissolved)	ug/L	-	-	-	-	1.4 U	1.4 U
Magnesium	ug/L	-	-	-	-	46000	29300
Magnesium (Dissolved)	ug/L	-	-	-	-	45200	28300
Manganese	ug/L	-	-	-	-	10500	804

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY GROUNDWATER PMP SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

Sample Location:		A-66D	A-66S	A-67D	A-67S	A-69	A-70
Sample ID:		GW-7462-020608-MJW-007	GW-7462-020608-MJW-008	GW-7462-020608-MJW-009	GW-7462-020608-MJW-010	GW-7462-020608-MJW-011	GW-7462-020708-012
Sample Date:		2/6/2008	2/6/2008	2/6/2008	2/6/2008	2/6/2008	2/7/2008
Parameters	Units						
<i>Metals (Cont'd.)</i>							
Manganese (Dissolved)	ug/L	-	-	-	-	10200	799
Mercury	ug/L	41.6	3.1	2.1	0.57	70.6	54.0
Mercury (Dissolved)	ug/L	15.6	0.14 J	0.66	0.10 J	4.1	10.4
Nickel	ug/L	-	-	-	-	10.8 J	1.4 U
Nickel (Dissolved)	ug/L	-	-	-	-	3.8 B	1.7 B
Potassium	ug/L	-	-	-	-	34500	73400
Potassium (Dissolved)	ug/L	-	-	-	-	34100	71800
Selenium	ug/L	-	-	-	-	2.4 J	2.4 U
Selenium (Dissolved)	ug/L	-	-	-	-	2.4 U	2.4 U
Silver	ug/L	-	-	-	-	13.4	0.85 B
Silver (Dissolved)	ug/L	-	-	-	-	2.0 B	0.69 B
Sodium	ug/L	-	-	-	-	226000	234000
Sodium (Dissolved)	ug/L	-	-	-	-	228000	231000
Thallium	ug/L	-	-	-	-	2.3 U	2.3 U
Thallium (Dissolved)	ug/L	-	-	-	-	3.1 J	2.3 U
Vanadium	ug/L	-	-	-	-	22.6 J	5.8 J
Vanadium (Dissolved)	ug/L	-	-	-	-	0.89 U	0.89 U
Zinc	ug/L	-	-	-	-	21.2 B	16.6 B
Zinc (Dissolved)	ug/L	-	-	-	-	3.9 U	7.0 B

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		A-70	A-71	A-75	A-77	CARBON-INFLUENT	STATION-G
Sample ID:		GW-7462-020708-013	GW-7462-020708-014	GW-7462-020708-015	GW-7462-020708-017	GW-7462-020808-019	SW-7462-020808-MJW-009
Sample Date:		2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/8/2008	2/8/2008
Parameters		Duplicate					
Units							
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	270	130	3900	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1 U	1 U	1 U	1 U	35	1 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	2600	1000	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	1 U	1 U	19000	6	470	1 U
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	330	190	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	3600	4100	1700	1	52	1 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	5 U	5 U	21000	12	610	1 U
2-Hexanone	ug/L	5 U	5 U	13 K	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	ug/L	5 U	5 U	3 K	5 U	5 U	5 U
Benzene	ug/L	3400	570	12 K	5 U	5 U	5 U
Bromodichloromethane	ug/L	1 U	1 U	75000	5	870	0.7 U
Bromoform	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl Bromide)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	9300	3000	1 U	1 U	10	5.2
Chloroethane	ug/L	1 U	1 U	130000	42	1400	1 U
Chloroform (Trichloromethane)	ug/L	3	2	1 U	1 U	1 U	1 U
Chloromethane (Methyl Chloride)	ug/L	1 U	1 U	1 U	1 U	12	3.7
cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	2	1 U
Cyclohexane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tert Butyl Ether	ug/L	1 U	1 U	6 K	1 U	1 U	1 U
Methylene chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
				1 U	1 U	1 U	1 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		A-70	A-71	A-75	A-77	CARBON-INFLUENT	STATION-G
Sample ID:		GW-7462-020708-013	GW-7462-020708-014	GW-7462-020708-015	GW-7462-020708-017	GW-7462-020808-019	SW-7462-020808-MJW-009
Sample Date:		2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/8/2008	2/8/2008
		Duplicate					
Parameters	Units						
Volatiles (Con'td.)							
Styrene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	3	1 U	3 K	1 U	9	7.5
Toluene	ug/L	1 U	1 U	42 K	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	3	1	1 U	1 U	5	1 U
Trichlorofluoromethane (CFC-11)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Trifluorotrichloroethane (Freon 113)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/L	26	24	4 K	1 U	52	1 U
Xylene (total)	ug/L	2	1 U	2 K	1 U	1 U	1 U
Metals							
Aluminum	ug/L	1470 K	2920 K	963 K	2700 K	2450 K	-
Aluminum (Dissolved)	ug/L	19.2 B	17.5 B	14.1 B	14.4 B	12.2 B	25.6 B
Antimony	ug/L	2.3 U	2.3 U	7.2 J	3.9 J	8.5 J	-
Antimony (Dissolved)	ug/L	2.3 U	2.3 U	5.2 J	3.2 J	2.3 U	2.3 U
Arsenic	ug/L	1.8 U	4.5 J	27.8	14.0	95.9	-
Arsenic (Dissolved)	ug/L	1.8 U	1.8 U	12.4	7.4 J	1.8 U	1.8 U
Barium	ug/L	6.5 J	19.9 J	501	325	196 J	-
Barium (Dissolved)	ug/L	4.6 J	14.1 J	493	321	106 J	48.8 J
Beryllium	ug/L	0.18 U	0.29 B	0.18 U	0.18 U	2.4 B	-
Beryllium (Dissolved)	ug/L	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Cadmium	ug/L	0.32 U	0.32 U	7.1	2.6 B	12.2	-
Cadmium (Dissolved)	ug/L	0.32 U	0.32 U	5.6	2.3 B	1.1 B	0.32 U
Calcium	ug/L	27500	97900	93700	95000	28200	-
Calcium (Dissolved)	ug/L	27100	102000	92900	95200	32400	20100
Chromium Total	ug/L	1.8 J	4.1 J	4.6 J	17.8	542	-
Chromium Total (Dissolved)	ug/L	0.57 U	0.83 B	0.84 B	0.57 U	1.7 B	8.7 J
Cobalt	ug/L	2.0 J	4.2 J	1.1 J	3.6 J	84.6	-
Cobalt (Dissolved)	ug/L	1.1 U	2.0 J	2.0 J	2.6 J	59.1	1.5 J
Copper	ug/L	3.7 B	9.4 J	9.4 J	9.7 J	6.3 B	-
Copper (Dissolved)	ug/L	0.87 U	0.87 U	2.9 J	0.94 J	1.2 J	0.97 B
Iron	ug/L	4150	10000	243000	134000	443000	-
Iron (Dissolved)	ug/L	122 B	208	218000	127000	907	71.8 B
Lead	ug/L	2.8 B	3.4 B	1.4 U	1.4 U	1.4 U	-
Lead (Dissolved)	ug/L	1.4 U	1.4 U	6.9 U	6.9 U	1.4 U	1.4 U
Magnesium	ug/L	29800	47800	99000	29700	17100	-
Magnesium (Dissolved)	ug/L	28400	48700	96200	29700	20900	18300
Manganese	ug/L	785	2840	3850	1040	6500	-

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY GROUNDWATER PMP SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

Sample Location:		A-70	A-71	A-75	A-77	CARBON-INFLUENT	STATION-G
Sample ID:		GW-7462-020708-013	GW-7462-020708-014	GW-7462-020708-015	GW-7462-020708-017	GW-7462-020808-019	SW-7462-020808-MJW-009
Sample Date:		2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/8/2008	2/8/2008
Parameters		Duplicate					
Units							
Metals (Cont'd.)							
Manganese (Dissolved)	ug/L	757	2940	3660	1010	6950	841
Mercury	ug/L	33.2	85.6	0.66	0.43	178	7.9
Mercury (Dissolved)	ug/L	9.6	5.5	0.17 J	0.21	4.1	1.0
Nickel	ug/L	1.4 U	4.2 J	4.4 J	7.2 J	10.3 J	-
Nickel (Dissolved)	ug/L	1.7 B	3.9 B	3.6 B	4.7 B	6.0 B	3.2 J
Potassium	ug/L	75000	62300	13400	8810	1440000	-
Potassium (Dissolved)	ug/L	72000	57700	12900	8060	1440000	133000
Selenium	ug/L	2.4 U	2.4 U	2.4 U	2.4 U	21.2	-
Selenium (Dissolved)	ug/L	2.4 U	2.4 U	2.4 U	2.4 U	5.3	2.4 U
Silver	ug/L	1.2 B	5.7 J	3.1 J	4.7 J	2.1 B	-
Silver (Dissolved)	ug/L	0.61 B	1.3 B	2.1 B	0.81 B	2.2 B	0.41 U
Sodium	ug/L	239000	280000	710000	54000	1160000	-
Sodium (Dissolved)	ug/L	231000	276000	706000	56300	1160000	507000
Thallium	ug/L	2.3 U	2.3 U	5.6 J	2.3 U	8.7 J	-
Thallium (Dissolved)	ug/L	2.3 U	2.3 U	5.3 J	4.5 J	2.3 U	2.3 U
Vanadium	ug/L	4.6 J	8.6 J	8.6 J	36.6 J	368	-
Vanadium (Dissolved)	ug/L	0.89 U	0.89 U	5.4 J	2.7 J	0.89 U	1.2 J
Zinc	ug/L	14.3 B	22.6 B	5.6 B	84.5	13.8 B	-
Zinc (Dissolved)	ug/L	16.1 B	16.4 B	5.1 B	26.0 B	11.9 B	10.1 B

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		STATION-G	STATION-H	STATION-I	STATION-J	STATION-K	STATION-L
Sample ID:		SW-7462-020808-MJW-010	SW-7462-020808-MJW-008	SW-7462-020808-MJW-007	SW-7462-020808-MJW-006	SW-7462-020808-MJW-005	SW-7462-020808-MJW-004
Sample Date:		2/8/2008	2/8/2008	2/8/2008	2/8/2008	2/8/2008	2/8/2008
		Duplicate					
Parameters	Units						
<i>Volatile Organic Compounds</i>							
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	1 U	1 U	7.4	23	52	29
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	1 U	3.1	38	120	240	280
1,2-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	1 U	1 U	9.0	26	51	43
1,4-Dichlorobenzene	ug/L	1 U	2.7	33	160	300	440
2-Butanone (Methyl Ethyl Ketone)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	ug/L	5 U	5 U	5 U	3 J	3 J	3 J
Benzene	ug/L	0.7 U	0.7 U	0.7 U	4.6	13	110
Bromodichloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl Bromide)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	ug/L	6.8	4.9	1.9	8.7	7.1	3.0
Chlorobenzene	ug/L	1 U	1 U	7.3	96	170	430
Chloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform (Trichloromethane)	ug/L	4.8	3.7	1 U	2.3	2.1	1.2
Chloromethane (Methyl Chloride)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tert Butyl Ether	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

Sample Location:		STATION-G	STATION-H	STATION-I	STATION-J	STATION-K	STATION-L
Sample ID:		SW-7462-020808-MJW-010	SW-7462-020808-MJW-008	SW-7462-020808-MJW-007	SW-7462-020808-MJW-006	SW-7462-020808-MJW-005	SW-7462-020808-MJW-004
Sample Date:		2/8/2008	2/8/2008	2/8/2008	2/8/2008	2/8/2008	2/8/2008
		Duplicate					
Parameters	Units						
Volatiles (Con'td.)							
Styrene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	8.1	5.7	3.0	2.4	3.4	1 U
Toluene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane (CFC-11)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Trifluorotrichloroethane (Freon 113)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1.1
Xylene (total)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Metals							
Aluminum	ug/L	-	-	-	-	-	-
Aluminum (Dissolved)	ug/L	20.6 B	10.7 B	15.6 B	20.3 B	8.8 U	8.8 U
Antimony	ug/L	-	-	-	-	-	-
Antimony (Dissolved)	ug/L	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
Arsenic	ug/L	-	-	-	-	-	-
Arsenic (Dissolved)	ug/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Barium	ug/L	-	-	-	-	-	-
Barium (Dissolved)	ug/L	47.6 J	48.2 J	44.2 J	49.1 J	41.6 J	40.6 J
Beryllium	ug/L	-	-	-	-	-	-
Beryllium (Dissolved)	ug/L	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Cadmium	ug/L	-	-	-	-	-	-
Cadmium (Dissolved)	ug/L	0.47 J	0.32 U	0.32 U	0.32 U	0.38 J	0.32 U
Calcium	ug/L	-	-	-	-	-	-
Calcium (Dissolved)	ug/L	19900	22100	39100	47900	54300	52800
Chromium Total	ug/L	-	-	-	-	-	-
Chromium Total (Dissolved)	ug/L	8.4 J	4.0 B	1.4 B	1.6 B	1.4 B	1.8 B
Cobalt	ug/L	-	-	-	-	-	-
Cobalt (Dissolved)	ug/L	1.5 J	1.9 J	6.6 J	13.0 J	18.5 J	9.9 J
Copper	ug/L	-	-	-	-	-	-
Copper (Dissolved)	ug/L	1.3 B	1.6 B	1.6 B	1.9 B	1.2 B	1.4 B
Iron	ug/L	-	-	-	-	-	-
Iron (Dissolved)	ug/L	24 U	24.2 U	28.0 B	27.9 B	61.1 B	45.0 B
Lead	ug/L	-	-	-	-	-	-
Lead (Dissolved)	ug/L	1.5 B	1.4 U	1.4 U	1.5 B	1.4 U	1.4 U
Magnesium	ug/L	-	-	-	-	-	-
Magnesium (Dissolved)	ug/L	18100	20300	33200	34200	41700	38800
Manganese	ug/L	-	-	-	-	-	-

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY GROUNDWATER PMP SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Sample Location:</i>		STATION-G	STATION-H	STATION-I	STATION-J	STATION-K	STATION-L
<i>Sample ID:</i>		SW-7462-020808-MJW-010	SW-7462-020808-MJW-008	SW-7462-020808-MJW-007	SW-7462-020808-MJW-006	SW-7462-020808-MJW-005	SW-7462-020808-MJW-004
<i>Sample Date:</i>		2/8/2008	2/8/2008	2/8/2008	2/8/2008	2/8/2008	2/8/2008
		Duplicate					
<i>Parameters</i>	<i>Units</i>						
<i>Metals (Cont'd.)</i>							
Manganese (Dissolved)	ug/L	825	1240	4030	7220	8070	10200
Mercury	ug/L	11.6	13.3	1.4	18.8	0.15 J	2.1
Mercury (Dissolved)	ug/L	0.88	0.80	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	ug/L	-	-	-	-	-	-
Nickel (Dissolved)	ug/L	2.6 J	3.3 J	8.0 J	10.0 J	15.2 J	9.4 J
Potassium	ug/L	-	-	-	-	-	-
Potassium (Dissolved)	ug/L	124000	150000	29100	38600	36800	37300
Selenium	ug/L	-	-	-	-	-	-
Selenium (Dissolved)	ug/L	2.4 U	4.0 J	2.4 U	2.4 U	3.2 J	3.2 J
Silver	ug/L	-	-	-	-	-	-
Silver (Dissolved)	ug/L	0.41 U	0.41 U	0.41 U	0.96 J	1.3 J	1.3 J
Sodium	ug/L	-	-	-	-	-	-
Sodium (Dissolved)	ug/L	476000	590000	301000	348000	426000	340000
Thallium	ug/L	-	-	-	-	-	-
Thallium (Dissolved)	ug/L	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	4.3 J
Vanadium	ug/L	-	-	-	-	-	-
Vanadium (Dissolved)	ug/L	1.3 J	1.4 J	0.89 U	0.89 U	0.89 U	0.89 U
Zinc	ug/L	-	-	-	-	-	-
Zinc (Dissolved)	ug/L	18.8 B	12.1 B	9.4 B	16.1 B	24.6 B	9.7 B

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER PMP SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
FEBRUARY 2008

<i>Sample Location:</i>		STATION-M	STATION-N	SYSTEM-EFFLUENT
<i>Sample ID:</i>		SW-7462-020808-MJW-003	SW-7462-020808-MJW-002	GW-7462-020808-018
<i>Sample Date:</i>		2/8/2008	2/8/2008	2/8/2008
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	5.2	2.2	1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	48	11	1 U
1,2-Dichloroethane	ug/L	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	11	5.2	1 U
1,4-Dichlorobenzene	ug/L	51	4.6	1 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	5 U	5 U	5 U
2-Hexanone	ug/L	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5 U	5 U	5 U
Acetone	ug/L	4 J	4 J	5 U
Benzene	ug/L	36	0.7 U	0.7 U
Bromodichloromethane	ug/L	1 U	1 U	1 U
Bromoform	ug/L	1 U	1 U	1 U
Bromomethane (Methyl Bromide)	ug/L	1 U	1 U	1 U
Carbon disulfide	ug/L	1 U	1 U	1 U
Carbon tetrachloride	ug/L	1 U	1 U	1 U
Chlorobenzene	ug/L	48	1.5	1 U
Chloroethane	ug/L	1 U	1 U	1 U
Chloroform (Trichloromethane)	ug/L	1 U	1 U	1 U
Chloromethane (Methyl Chloride)	ug/L	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U
Cyclohexane	ug/L	1 U	1 U	1 U
Dibromochloromethane	ug/L	1 U	1 U	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	1 U	1 U	1 U
Ethylbenzene	ug/L	1 U	1 U	1 U
Isopropylbenzene	ug/L	1 U	1 U	1 U
Methyl acetate	ug/L	1 U	1 U	1 U
Methyl cyclohexane	ug/L	1 U	1 U	1 U
Methyl Tert Butyl Ether	ug/L	1 U	1 U	1 U
Methylene chloride	ug/L	1 U	1 U	1 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY GROUNDWATER PMP SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Sample Location:</i>		STATION-M	STATION-N	SYSTEM-EFFLUENT
<i>Sample ID:</i>		SW-7462-020808-MJW-003	SW-7462-020808-MJW-002	GW-7462-020808-018
<i>Sample Date:</i>		2/8/2008	2/8/2008	2/8/2008
<i>Parameters</i>	<i>Units</i>			
Volatiles (Con'td.)				
Styrene	ug/L	1 U	1 U	1 U
Tetrachloroethene	ug/L	1 U	1 U	1 U
Toluene	ug/L	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	1 U	1 U	1 U
Trichloroethene	ug/L	1 U	1 U	1 U
Trichlorofluoromethane (CFC-11)	ug/L	1 U	1 U	1 U
Trifluorotrichloroethane (Freon 113)	ug/L	1 U	1 U	1 U
Vinyl chloride	ug/L	1.1	1 U	1 U
Xylene (total)	ug/L	1 U	1 U	1 U
Metals				
Aluminum	ug/L	-	-	8.8 U
Aluminum (Dissolved)	ug/L	12.3 B	32.3 B	20.6 B
Antimony	ug/L	-	-	2.3 U
Antimony (Dissolved)	ug/L	2.3 U	2.3 U	2.3 U
Arsenic	ug/L	-	-	1.8 U
Arsenic (Dissolved)	ug/L	1.8 U	1.8 U	1.8 U
Barium	ug/L	-	-	76.6 J
Barium (Dissolved)	ug/L	39.9 J	38.6 J	116 J
Beryllium	ug/L	-	-	0.18 U
Beryllium (Dissolved)	ug/L	0.18 U	0.96 J	0.18 U
Cadmium	ug/L	-	-	0.32 U
Cadmium (Dissolved)	ug/L	0.39 J	1.0 J	0.32 U
Calcium	ug/L	-	-	32800
Calcium (Dissolved)	ug/L	53300	52100	33500
Chromium Total	ug/L	-	-	1.5 J
Chromium Total (Dissolved)	ug/L	3.0 B	2.3 B	0.92 B
Cobalt	ug/L	-	-	61.9
Cobalt (Dissolved)	ug/L	7.6 J	5.6 J	63.6
Copper	ug/L	-	-	1.1 B
Copper (Dissolved)	ug/L	1.6 B	2.7 B	1.0 J
Iron	ug/L	-	-	83.7 J
Iron (Dissolved)	ug/L	61.6 B	52.3 B	74.6 B
Lead	ug/L	-	-	1.4 U
Lead (Dissolved)	ug/L	2.0 B	2.0 B	1.4 U
Magnesium	ug/L	-	-	22000
Magnesium (Dissolved)	ug/L	37400	35700	22200
Manganese	ug/L	-	-	7270

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY GROUNDWATER PMP SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

Sample Location:		STATION-M		STATION-N		SYSTEM-EFFLUENT	
Sample ID:		SW-7462-020808-MJW-003		SW-7462-020808-MJW-002		GW-7462-020808-018	
Sample Date:		2/8/2008		2/8/2008		2/8/2008	
Parameters		Units					
Metals (Cont'd.)							
Manganese (Dissolved)	ug/L	8680		7570		7500	
Mercury	ug/L	0.52		0.90		0.15 J	
Mercury (Dissolved)	ug/L	0.10 U		0.10 U		0.10 U	
Nickel	ug/L	-		-		7.7 J	
Nickel (Dissolved)	ug/L	8.7 J		8.5 J		11.8 J	
Potassium	ug/L	-		-		1440000	
Potassium (Dissolved)	ug/L	40000		39500		1470000	
Selenium	ug/L	-		-		5.4	
Selenium (Dissolved)	ug/L	2.4 U		2.4 U		4.2 J	
Silver	ug/L	-		-		1.7 B	
Silver (Dissolved)	ug/L	1.2 J		1.5 J		2.1 B	
Sodium	ug/L	-		-		1160000	
Sodium (Dissolved)	ug/L	350000		334000		1180000	
Thallium	ug/L	-		-		2.3 U	
Thallium (Dissolved)	ug/L	2.5 J		4.8 J		2.6 J	
Vanadium	ug/L	-		-		0.89 U	
Vanadium (Dissolved)	ug/L	1.6 J		2.5 J		0.89 U	
Zinc	ug/L	-		-		3.9 U	
Zinc (Dissolved)	ug/L	6.7 B		3.9 U		9.5 B	

Notes:

- = Not analyzed.

B = Analyte detected in the associated blank
a similar level.

J = Estimated.

K = The result may be biased high.

U = Not detected.

TABLE 3
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING SURROGATE RECOVERIES
 QUARTERLY PMP GROUNDWATER SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Parameter</i>	<i>Sample ID</i>	<i>Surrogates</i>	<i>Surrogate Recovery (percent)</i>	<i>Control Limits (percent)</i>	<i>Analytes</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
Volatiles	GW-7462-020708-015	Toluene-d8	272	60-135	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	3 J	µg/L	K
		4-Bromofluorobenzene	288	63-140	Methyl cyclohexane	6	µg/L	K
					Toluene	42	µg/L	K
					Tetrachloroethene	3	µg/L	K
					Xylene (total)	2	µg/L	K
					Acetone	12	µg/L	K
					Vinyl chloride	4	µg/L	K
					2-Butanone (Methyl Ethyl Ketone)	13	µg/L	K

Notes:

J Estimated.

K The result may be biased high.

TABLE 4
 QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
 QUARTERLY PMP GROUNDWATER SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Parameter</i>	<i>Analysis Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Qualified Result</i>	<i>Units</i>
Metals	02/13/08	Zinc	3.98 J	GW-7462-020708-012	16.6 J	16.6 B	µg/L
				GW-7462-020708-013	14.3 J	14.3 B	µg/L
				GW-7462-020708-015	5.6 J	5.6 B	µg/L
				GW-7462-020808-019	13.8 J	13.8 B	µg/L
Metals	02/13/08	Silver (Dissolved)	0.464 J	GW-7462-020608-MJW-011	2.0 J	2.0 B	µg/L
				GW-7462-020708-012	0.69 J	0.69 B	µg/L
				GW-7462-020708-013	0.61 J	0.61 B	µg/L
				GW-7462-020708-014	1.3 J	1.3 B	µg/L
				GW-7462-020708-015	2.1 J	2.1 B	µg/L
				GW-7462-020708-016	1.0 J	1.0 B	µg/L
				GW-7462-020708-017	0.81 J	0.81 B	µg/L
				GW-7462-020808-018	2.1 J	2.1 B	µg/L
Metals	02/14/08	Aluminum (Dissolved)	21.7 J	SW-7462-020808-MJW-002	32.3 J	32.3 B	µg/L
				SW-7462-020808-MJW-003	12.3 J	12.3 B	µg/L
				SW-7462-020808-MJW-006	20.3 J	20.3 B	µg/L
				SW-7462-020808-MJW-007	15.6 J	15.6 B	µg/L
				SW-7462-020808-MJW-008	10.7 J	10.7 B	µg/L
				SW-7462-020808-MJW-009	25.6 J	25.6 B	µg/L
				SW-7462-020808-MJW-010	20.6 J	20.6 B	µg/L
Metals	02/14/08	Chromium (Dissolved)	1.0 J	SW-7462-020808-MJW-002	2.3 J	2.3 B	µg/L
				SW-7462-020808-MJW-003	3.0 J	3.0 B	µg/L
				SW-7462-020808-MJW-004	1.8 J	1.8 B	µg/L
				SW-7462-020808-MJW-005	1.4 J	1.4 B	µg/L
				SW-7462-020808-MJW-006	1.6 J	1.6 B	µg/L
				SW-7462-020808-MJW-007	1.4 J	1.4 B	µg/L
				SW-7462-020808-MJW-008	4.0 J	4.0 B	µg/L
Metals	02/14/08	Zinc (Dissolved)	4.07 J	SW-7462-020808-MJW-003	6.7 J	6.7 B	µg/L
				SW-7462-020808-MJW-004	9.7 J	9.7 B	µg/L
				SW-7462-020808-MJW-006	16.1 J	16.1 B	µg/L
				SW-7462-020808-MJW-007	9.4 J	9.4 B	µg/L
				SW-7462-020808-MJW-008	12.1 J	12.1 B	µg/L
				SW-7462-020808-MJW-009	10.1 J	10.1 B	µg/L
				SW-7462-020808-MJW-010	18.8 J	18.8 B	µg/L

Notes:

- B Analyte detected in the associated blank at a similar level.
 J Estimated.

TABLE 5
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE RECOVERIES
 QUARTERLY PMP GROUNDWATER SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Analyte</i>	<i>Spike ID</i>	<i>MS Recovery (percent)</i>	<i>Control Limits (percent)</i>	<i>Associated Samples</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
Aluminum	GW-7462-020608-MJW-011	128	75-125	GW-7462-020608-MJW-011	4730	µg/L	K
				GW-7462-020708-012	1750	µg/L	K
				GW-7462-020708-013	1470	µg/L	K
				GW-7462-020708-014	2920	µg/L	K
				GW-7462-020708-015	963	µg/L	K
				GW-7462-020708-016	1070	µg/L	K
				GW-7462-020708-017	2700	µg/L	K
				GW-7462-020808-019	2450	µg/L	K

Notes:

K The result may be biased high.

MS Matrix Spike.

TABLE 6
 QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE FIELD BLANKS
 QUARTERLY PMP GROUNDWATER SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Parameter</i>	<i>Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Qualified Sample Result</i>	<i>Units</i>
Metals	02/05/08	Beryllium	0.75 J	GW-7462-020608-MJW-011	0.81 J	0.81 B	µg/L
				GW-7462-020708-012	0.20 J	0.20 B	µg/L
				GW-7462-020708-014	0.29 J	0.29 B	µg/L
				GW-7462-020808-019	2.4 J	2.4 B	µg/L
Metals	02/05/08	Cadmium	0.82 J	GW-7462-020608-MJW-011	1.3 J	1.3 B	µg/L
				GW-7462-020708-016	1.8 J	1.8 B	µg/L
				GW-7462-020708-017	2.6 J	2.6 B	µg/L
Metals	02/05/08	Copper	1.4 J	GW-7462-020708-012	4.5 J	4.5 B	µg/L
				GW-7462-020708-013	3.7 J	3.7 B	µg/L
				GW-7462-020708-016	6.6 J	6.6 B	µg/L
				GW-7462-020808-018	1.1 J	1.1 B	µg/L
				GW-7462-020808-019	6.3 J	6.3 B	µg/L
Metals	02/05/08	Lead	1.5 J	GW-7462-020608-MJW-011	6.1	6.1 B	µg/L
				GW-7462-020708-012	3.1	3.1 B	µg/L
				GW-7462-020708-013	2.8 J	2.8 B	µg/L
				GW-7462-020708-014	3.4	3.4 B	µg/L
Metals	02/05/08	Silver	0.47 J	GW-7462-020708-012	0.85 J	0.85 B	µg/L
				GW-7462-020708-013	1.2 J	1.2 B	µg/L
				GW-7462-020808-018	1.7 J	1.7 B	µg/L
				GW-7462-020808-019	2.1 J	2.1 B	µg/L
Metals	02/05/08	Zinc	11.4 J	GW-7462-020608-MJW-011	21.2	21.2 B	µg/L
				GW-7462-020708-014	22.6	22.6 B	µg/L
				GW-7462-020708-016	22.6	22.6 B	µg/L
Metals	02/05/08	Aluminum (Dissolved)	24.8 J	GW-7462-020708-012	16.3 J	16.3 B	µg/L
				GW-7462-020708-013	19.2 J	19.2 B	µg/L
				GW-7462-020708-014	17.5 J	17.5 B	µg/L
				GW-7462-020708-015	14.1 J	14.1 B	µg/L
				GW-7462-020708-016	9.8 J	9.8 B	µg/L
				GW-7462-020708-017	14.4 J	14.4 B	µg/L
				GW-7462-020808-018	20.6 J	20.6 B	µg/L
				GW-7462-020808-019	12.2 J	12.2 B	µg/L

TABLE 6
 QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE FIELD BLANKS
 QUARTERLY PMP GROUNDWATER SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Parameter</i>	<i>Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Qualified Sample Result</i>	<i>Units</i>
Metals	02/05/08	Cadmium (Dissolved)	0.88 J	GW-7462-020708-016	1.6 J	1.6 B	µg/L
				GW-7462-020708-017	2.3 J	2.3 B	µg/L
				GW-7462-020808-019	1.1 J	1.1 B	µg/L
Metals	02/05/08	Chromium (Dissolved)	1.2 J	GW-7462-020608-MJW-011	0.93 J	0.93 B	µg/L
				GW-7462-020708-012	0.60 J	0.60 B	µg/L
				GW-7462-020708-014	0.83 J	0.83 B	µg/L
				GW-7462-020708-015	0.84 J	0.84 B	µg/L
				GW-7462-020808-018	0.92 J	0.92 B	µg/L
Metals	02/05/08	Iron (Dissolved)	27.9 J	GW-7462-020708-012	127	127 B	µg/L
				GW-7462-020708-013	122	122 B	µg/L
				GW-7462-020808-018	74.6 J	74.6 B	µg/L
Metals	02/05/08	Nickel (Dissolved)	1.9 J	GW-7462-020608-MJW-011	3.8 J	3.8 B	µg/L
				GW-7462-020708-012	1.7 J	1.7 B	µg/L
				GW-7462-020708-013	1.7 J	1.7 B	µg/L
				GW-7462-020708-014	3.9 J	3.9 B	µg/L
				GW-7462-020708-015	3.6 J	3.6 B	µg/L
				GW-7462-020708-016	3.1 J	3.1 B	µg/L
				GW-7462-020708-017	4.7 J	4.7 B	µg/L
Metals	02/05/08	Zinc (Dissolved)	7.1 J	GW-7462-020708-012	7.0 J	7.0 B	µg/L
				GW-7462-020708-013	16.1 J	16.1 B	µg/L
				GW-7462-020708-014	16.4 J	16.4 B	µg/L
				GW-7462-020708-015	5.1 J	5.1 B	µg/L
				GW-7462-020708-016	14.0 J	14.0 B	µg/L
				GW-7462-020708-017	26.0	26.0 B	µg/L
				GW-7462-020808-018	9.5 J	9.5 B	µg/L
				GW-7462-020808-019	11.9 J	11.9 B	µg/L

TABLE 6
 QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE FIELD BLANKS
 QUARTERLY PMP GROUNDWATER SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 FEBRUARY 2008

<i>Parameter</i>	<i>Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Qualified Sample Result</i>	<i>Units</i>
Metals	02/08/08	Copper (Dissolved)	1.9 J	SW-7462-020808-MJW-002	2.7 J	2.7 B	µg/L
				SW-7462-020808-MJW-003	1.6 J	1.6 B	µg/L
				SW-7462-020808-MJW-004	1.4 J	1.4 B	µg/L
				SW-7462-020808-MJW-005	1.2 J	1.2 B	µg/L
				SW-7462-020808-MJW-006	1.9 J	1.9 B	µg/L
				SW-7462-020808-MJW-007	1.6 J	1.6 B	µg/L
				SW-7462-020808-MJW-008	1.6 J	1.6 B	µg/L
				SW-7462-020808-MJW-009	0.97 J	0.97 B	µg/L
				SW-7462-020808-MJW-010	1.3 J	1.3 B	µg/L
Metals	02/08/08	Iron (Dissolved)	38.3 J	SW-7462-020808-MJW-002	52.3 J	52.3 B	µg/L
				SW-7462-020808-MJW-003	61.6 J	61.6 B	µg/L
				SW-7462-020808-MJW-004	45.0 J	45.0 B	µg/L
				SW-7462-020808-MJW-005	61.1 J	61.1 B	µg/L
				SW-7462-020808-MJW-006	27.9 J	27.9 B	µg/L
				SW-7462-020808-MJW-007	28.0 J	28.0 B	µg/L
				SW-7462-020808-MJW-009	71.8 J	71.8 B	µg/L
Metals	02/08/08	Lead (Dissolved)	1.9 J	SW-7462-020808-MJW-002	2.0 J	2.0 B	µg/L
				SW-7462-020808-MJW-003	2.0 J	2.0 B	µg/L
				SW-7462-020808-MJW-006	1.5 J	1.5 B	µg/L
				SW-7462-020808-MJW-010	1.5 J	1.5 B	µg/L
Metals	02/08/08	Zinc (Dissolved)	11.8 J	SW-7462-020808-MJW-005	24.6	24.6 B	µg/L

Notes:

- B Analyte detected in the associated blank at a similar level.
 J Estimated.



**CONESTOGA-ROVERS
& ASSOCIATES**

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ANALYTICAL DATA ASSESSMENT AND VALIDATION
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008


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TABLE 2	ANALYTICAL RESULTS SUMMARY
TABLE 3	QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANK

1.0 INTRODUCTION

The following document details an assessment and validation of analytical results reported by H2M Labs, Inc. (H2M) for groundwater samples collected in support of the Monthly Tributary Sampling Program at the Glenn Springs Holdings, Inc. (GSHI) Site in Delaware City, Delaware (Site). The samples were collected in March 2008.

The samples were analyzed for the following: target compound list (TCL) volatile organic compounds (VOCs); site specific parameter list (SSPL) metals; total and dissolved mercury, alkalinity, chloride, sulfate, and total suspended solids (TSS).

A sampling and analysis summary is presented in Table 1. A summary of the analytical data is presented in Table 2. The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods and the documents entitled:

- i) Region III Modification to National Functional Guidelines for Organic Data Review, Multi-Media, Multi-Concentration (OLM01.0-OLM01.9), September 1994; and
- ii) Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses", April 1993.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC results provided. Data assessment was based on information obtained from final data sheets, method blank data, duplicate results, surrogate recoveries, blank/matrix spike recoveries, and field QA/QC samples.

2.0 SAMPLE HOLDING TIMES

The hold time periods are presented in the analytical methods. All samples were prepared and analyzed within the method required holding times.

All samples were properly preserved and cooled after collection.

3.0 SURROGATE SPIKE RECOVERIES - ORGANICS

In accordance with the method employed, all samples, blanks, and standards analyzed for VOCs were spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits.

Some surrogate recoveries could not be assessed for the VOCs due to required sample dilutions. All remaining surrogate recoveries met the method criteria demonstrating acceptable analytical accuracy.

4.0 METHOD BLANK ANALYSES

The purpose of assessing the results of method blank analyses is to determine the existence and magnitude of sample contamination introduced during analysis. Method blanks are prepared from deionized water and analyzed as samples.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and the data were non-detect for the compounds of interest.

5.0 LABORATORY CONTROL SAMPLE (LCS)/BLANK SPIKE (BS) ANALYSES

LCS or BS samples are prepared and analyzed to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. LCS or BS samples were prepared and analyzed for all applicable parameters. The results were acceptable for all analytes spiked.

6.0 MATRIX SPIKE (MS) ANALYSES - INORGANICS

To evaluate the effects of sample matrices on the digestion, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The established control limits for inorganic MS recoveries are 75 to 125 percent. Spike recoveries are not assessed for samples having original concentrations significantly greater than the spike concentration (>four times) or when the spike concentration is diluted out due to matrix interference.

All MS recoveries met the above criteria.

7.0 DUPLICATE SAMPLE ANALYSES - INORGANICS

For inorganics, analytical precision is evaluated based on the analysis of duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory at the proper frequency.

Laboratory duplicate results are assessed against a maximum relative percent difference (RPD) of 20 percent. Metals sample results less than five times the Contract Required Detection Limit (CRDL) are evaluated based on the difference between the sample and duplicate results, which should not exceed the CRDL.

The duplicate analyses met the above criteria.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES - VOCs

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of organic parameters, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The laboratory prepared the spike samples in duplicate, to assess analytical precision. The laboratory established the MS/MSD control limits internally. Per the "Guidelines", qualification of data is not required if the sample results exceed four times the spike concentration added.

All MS/MSD analyses performed were acceptable, demonstrating good analytical accuracy and precision.

9.0 FIELD QA/QC

9.1 TRIP BLANK ANALYSES

One trip blank was submitted for analysis. The trip blank was non-detect for the compounds of interest with the exception of 1,4-dichlorobenzene. Associated sample results with concentrations similar to that found in the trip blank were qualified B (see Table 3).

9.2 EQUIPMENT BLANK ANALYSES

One equipment blank was submitted for total and dissolved mercury analysis. The equipment blank was non-detect for the compounds of interest.

9.3 FIELD DUPLICATE ANALYSES

To assess the analytical and sampling precision, one field duplicate sample was collected and submitted "blind" to the laboratory, as indicated in Table 1. All results were comparable, demonstrating good field and laboratory precision.

10.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data produced by H2M are acceptable with the specific qualifications noted herein.

TABLES

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters					Comments
				VOCs	Total Mercury	Dissolved Mercury	SSPL Metals	Natural Attenuation*	
SW-7462-030608-RM-01	Station G	03/06/08	10:35	X	X	X	X	X	
SW-7462-030608-RM-02	Station G	03/06/08	10:35		X				
SW-7462-030608-RM-03	Station S	03/06/08	11:15	X	X	X	X	X	
SW-7462-030608-RM-04	Station S	03/06/08	11:15		X				
SW-7462-030608-RM-05	Station T	03/06/08	11:45	X	X	X	X	X	
SW-7462-030608-RM-06	Station T	03/06/08	11:45		X				
SW-7462-030608-RM-07	Station U	03/06/08	12:15	X	X	X	X	X	
SW-7462-030608-RM-08	Station U	03/06/08	12:15		X				
SW-7462-030608-RM-09	Station V	03/06/08	12:50	X	X	X	X	X	
SW-7462-030608-RM-10	Station V	03/06/08	12:50		X				
SW-7462-030608-RM-11	Station H	03/06/08	13:20	X	X	X	X	X	
SW-7462-030608-RM-12	Station H	03/06/08	13:20		X				
SW-7462-030608-RM-13	Station I	03/06/08	13:45	X	X	X	X	X	
SW-7462-030608-RM-14	Station I	03/06/08	13:45		X				
SW-7462-030608-RM-15	Station J	03/06/08	14:15	X	X	X	X	X	
SW-7462-030608-RM-16	Station J	03/06/08	14:15		X				
SW-7462-030608-RM-17	Station K	03/06/08	14:45	X	X	X	X	X	
SW-7462-030608-RM-18	Station K	03/06/08	14:45		X				
SW-7462-030608-RM-19	Station L	03/06/08	15:10	X	X	X	X	X	
SW-7462-030608-RM-20	Station L	03/06/08	15:10		X				
SW-7462-030708-RM-21	Station W	03/07/08	9:50	X	X	X	X	X	
SW-7462-030708-RM-22	Station W	03/07/08	9:50		X				
SW-7462-030708-RM-23	Station X	03/07/08	10:30	X	X	X	X	X	
SW-7462-030708-RM-24	Station X	03/07/08	10:30		X				
SW-7462-030708-RM-25	Station X Duplicate	03/07/08	10:40	X	X	X	X	X	Field duplicate of SW-7462-030708-RM-23
SW-7462-030708-RM-26	Station X Duplicate	03/07/08	10:40		X				Field duplicate of SW-7462-030708-RM-24
SW-7462-030708-RM-27	Station Y	03/07/08	11:20	X	X	X	X	X	
SW-7462-030708-RM-28	Station Y	03/07/08	11:20		X				
SW-7462-030708-RM-29	Station Z	03/07/08	11:40	X	X	X	X	X	
SW-7462-030708-RM-30	Station Z	03/07/08	11:40		X				
SW-7462-030708-RM-31	Station M	03/07/08	12:05	X	X	X	X	X	
SW-7462-030708-RM-32	Station M	03/07/08	12:05		X				
SW-7462-030708-RM-33	Station N	03/07/08	12:30	X	X	X	X	X	
SW-7462-030708-RM-34	Station N	03/07/08	12:30		X				
EB-7462-030708-RM-35	Equip. Blank	03/07/08	14:15			X	X		Equipment Blank
Trip Blank-7462-030708-01	Trip Blank	03/07/08	-	X					Trip Blank

Notes:

- Not applicable.
- * Natural Attenuation are Alkalinity, Chloride, Sulfate and Total Suspended Solids(TSS).
- SSPL Site-Specific Parameter List.
- VOCs Volatile Organic Compounds.

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

Sample Location	STATION-G	STATION-G	STATION-H	STATION-H	STATION-I	STATION-I
Sample ID	SW-7462-030608-RM-01	SW-7462-030608-RM-02	SW-7462-030608-RM-11	SW-7462-030608-RM-12	SW-7462-030608-RM-13	SW-7462-030608-RM-14
Sample Date	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008
Parameters	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	ug/L	2 U	-	2 U	-	2 U
1,1,2,2-Tetrachloroethane	ug/L	2 U	-	2 U	-	2 U
1,1,2-Trichloroethane	ug/L	2 U	-	2 U	-	2 U
1,1-Dichloroethane	ug/L	2 U	-	2 U	-	2 U
1,1-Dichloroethene	ug/L	2 U	-	2 U	-	2 U
1,2,4-Trichlorobenzene	ug/L	2	-	2	-	7
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2 U	-	2 U	-	2 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	2 U	-	2 U	-	2 U
1,2-Dichlorobenzene	ug/L	3	-	11	-	38
1,2-Dichloroethane	ug/L	2 U	-	2 U	-	2 U
1,2-Dichloropropane	ug/L	2 U	-	2 U	-	2 U
1,3-Dichlorobenzene	ug/L	1 J	-	2	-	8
1,4-Dichlorobenzene	ug/L	2 B	-	6	-	23
2-Butanone (Methyl Ethyl Ketone)	ug/L	5 U	-	5 U	-	5 U
2-Hexanone	ug/L	5 U	-	5 U	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5 U	-	5 U	-	5 U
Acetone	ug/L	2 J	-	3 J	-	3 J
Benzene	ug/L	0.7 U	-	0.7 U	-	0.7 U
Bromodichloromethane	ug/L	2 U	-	2 U	-	2 U
Bromoform	ug/L	2 U	-	2 U	-	2 U
Bromomethane (Methyl Bromide)	ug/L	2 U	-	2 U	-	2 U
Carbon disulfide	ug/L	2 U	-	2 U	-	2 U
Carbon tetrachloride	ug/L	4	-	9	-	2
Chlorobenzene	ug/L	2 U	-	2 U	-	3
Chloroethane	ug/L	2 U	-	2 U	-	2 U
Chloroform (Trichloromethane)	ug/L	2	-	6	-	2 U
Chloromethane (Methyl Chloride)	ug/L	2 U	-	2 U	-	2 U
cis-1,2-Dichloroethene	ug/L	2 U	-	2 U	-	2 U
cis-1,3-Dichloropropene	ug/L	2 U	-	2 U	-	2 U
Cyclohexane	ug/L	2 U	-	2 U	-	2 U
Dibromochloromethane	ug/L	2 U	-	2 U	-	2 U
Dichlorodifluoromethane (CFC-12)	ug/L	2 U	-	2 U	-	2 U
Ethylbenzene	ug/L	2 U	-	2 U	-	2 U
Isopropylbenzene	ug/L	2 U	-	2 U	-	2 U
Methyl acetate	ug/L	2 U	-	2 U	-	2 U
Methyl cyclohexane	ug/L	2 U	-	2 U	-	2 U
Methyl Tert Butyl Ether	ug/L	2 U	-	2 U	-	2 U
Methylene chloride	ug/L	2 U	-	2 U	-	2 U
Styrene	ug/L	2 U	-	2 U	-	2 U
Tetrachloroethene	ug/L	7	-	8	-	3
Toluene	ug/L	2 U	-	2 U	-	2 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

Sample Location	STATION-G	STATION-G	STATION-H	STATION-H	STATION-I	STATION-I
Sample ID	SW-7462-030608-RM-01	SW-7462-030608-RM-02	SW-7462-030608-RM-11	SW-7462-030608-RM-12	SW-7462-030608-RM-13	SW-7462-030608-RM-14
Sample Date	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008
Parameters	Units					
Volatile Organic Compounds (Cont'd.)						
trans-1,2-Dichloroethene	ug/L	2 U	-	2 U	-	2 U
trans-1,3-Dichloropropene	ug/L	2 U	-	2 U	-	2 U
Trichloroethene	ug/L	2 U	-	2 U	-	2 U
Trichlorofluoromethane (CFC-11)	ug/L	2 U	-	2 U	-	2 U
Trifluorotrichloroethane (Freon 113)	ug/L	2 U	-	2 U	-	2 U
Vinyl chloride	ug/L	2 U	-	2 U	-	2 U
Xylene (total)	ug/L	2 U	-	2 U	-	2 U
Metals						
Calcium	ug/L	19100	-	22800	-	37200
Manganese	ug/L	739	-	1340	-	3490
Mercury	ug/L	7.2	8.8	7.5	12.6	0.83
Mercury (Dissolved)	ug/L	0.91	-	1.3	-	0.10 U
Potassium	ug/L	112000	-	139000	-	40200
Sodium	ug/L	438000	-	563000	-	285000
General Chemistry						
Alkalinity, Total (As CaCO3)	mg/L	85.8	-	104	-	97.5
Carbonate	mg/L	1 U	-	1 U	-	1 U
Chloride	mg/L	696	-	900	-	432
Sulfate	mg/L	128	-	163	-	184
Total Suspended Solids (TSS)	mg/L	4	-	9	-	7

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

	Sample Location	STATION-J	STATION-J	STATION-K	STATION-K	STATION-L	STATION-L	STATION-M
	Sample ID	SW-7462-030608-RM-15	SW-7462-030608-RM-16	SW-7462-030608-RM-17	SW-7462-030608-RM-18	SW-7462-030608-RM-19	SW-7462-030608-RM-20	SW-7462-030708-RM-31
	Sample Date	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/7/2008
Parameters	Units							
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,1,2,2-Tetrachloroethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,1,2-Trichloroethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,1-Dichloroethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,1-Dichloroethene	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,2,4-Trichlorobenzene	ug/L	19	-	56	-	12	-	7
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,2-Dichlorobenzene	ug/L	110	-	260	-	120	-	110
1,2-Dichloroethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,2-Dichloropropane	ug/L	2 U	-	2 U	-	2 U	-	2 U
1,3-Dichlorobenzene	ug/L	21	-	61	-	21	-	19
1,4-Dichlorobenzene	ug/L	110	-	360	-	160	-	140
2-Butanone (Methyl Ethyl Ketone)	ug/L	5 U	-	5 U	-	5 U	-	5 U
2-Hexanone	ug/L	5 U	-	5 U	-	5 U	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5 U	-	5 U	-	5 U	-	5 U
Acetone	ug/L	3 J	-	4 J	-	3 J	-	3 J
Benzene	ug/L	4	-	19	-	60	-	120
Bromodichloromethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
Bromoform	ug/L	2 U	-	2 U	-	2 U	-	2 U
Bromomethane (Methyl Bromide)	ug/L	2 U	-	2 U	-	2 U	-	2 U
Carbon disulfide	ug/L	2 U	-	2 U	-	2 U	-	2 U
Carbon tetrachloride	ug/L	5	-	9	-	2	-	2 U
Chlorobenzene	ug/L	57	-	310	-	150	-	190
Chloroethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
Chloroform (Trichloromethane)	ug/L	1 J	-	2	-	2 U	-	2 U
Chloromethane (Methyl Chloride)	ug/L	2 U	-	2 U	-	2 U	-	2 U
cis-1,2-Dichloroethene	ug/L	2 U	-	2 U	-	2 U	-	2 U
cis-1,3-Dichloropropene	ug/L	2 U	-	2 U	-	2 U	-	2 U
Cyclohexane	ug/L	2 U	-	2 U	-	2 U	-	2 U
Dibromochloromethane	ug/L	2 U	-	2 U	-	2 U	-	2 U
Dichlorodifluoromethane (CFC-12)	ug/L	2 U	-	2 U	-	2 U	-	2 U
Ethylbenzene	ug/L	2 U	-	2 U	-	2 U	-	2 U
Isopropylbenzene	ug/L	2 U	-	2 U	-	2 U	-	2 U
Methyl acetate	ug/L	2 U	-	2 U	-	2 U	-	2 U
Methyl cyclohexane	ug/L	2 U	-	2 U	-	2 U	-	2 U
Methyl Tert Butyl Ether	ug/L	2 U	-	2 U	-	2 U	-	2 U
Methylene chloride	ug/L	2 U	-	2 U	-	2 U	-	2 U
Styrene	ug/L	2 U	-	2 U	-	2 U	-	2 U
Tetrachloroethene	ug/L	2	-	4	-	2 U	-	2 U
Toluene	ug/L	2 U	-	2 U	-	2 U	-	2 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

	Sample Location	STATION-J	STATION-J	STATION-K	STATION-K	STATION-L	STATION-L	STATION-M
	Sample ID	SW-7462-030608-RM-15	SW-7462-030608-RM-16	SW-7462-030608-RM-17	SW-7462-030608-RM-18	SW-7462-030608-RM-19	SW-7462-030608-RM-20	SW-7462-030708-RM-31
	Sample Date	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/7/2008
Parameters	Units							
Volatile Organic Compounds (Cont'd.)								
trans-1,2-Dichloroethene	ug/L	2 U	-	2 U	-	2 U	-	2 U
trans-1,3-Dichloropropene	ug/L	2 U	-	2 U	-	2 U	-	2 U
Trichloroethene	ug/L	2 U	-	2 U	-	2 U	-	2 U
Trichlorofluoromethane (CFC-11)	ug/L	2 U	-	2 U	-	2 U	-	2 U
Trifluorotrichloroethane (Freon 113)	ug/L	2 U	-	2 U	-	2 U	-	2 U
Vinyl chloride	ug/L	2 U	-	2 U	-	1 J	-	3
Xylene (total)	ug/L	2 U	-	2 U	-	2 U	-	2 U
Metals								
Calcium	ug/L	45700	-	49000	-	53100	-	55500
Manganese	ug/L	5920	-	6940	-	9410	-	9630
Mercury	ug/L	1.0	0.32	0.69	0.36	0.61	2.9	0.63
Mercury (Dissolved)	ug/L	0.10 U	-	0.10 U	-	0.10 U	-	0.10 U
Potassium	ug/L	47800	-	40500	-	44800	-	44500
Sodium	ug/L	327000	-	348000	-	348000	-	370000
General Chemistry								
Alkalinity, Total (As CaCO3)	mg/L	121	-	96.0	-	144	-	150
Carbonate	mg/L	1 U	-	1 U	-	1 U	-	1 U
Chloride	mg/L	488	-	571	-	501	-	527
Sulfate	mg/L	239	-	270	-	302	-	262
Total Suspended Solids (TSS)	mg/L	34	-	9	-	15	-	21

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

	Sample Location	STATION-M	STATION-N	STATION-N	STATION-S	STATION-S	STATION-T	STATION-T
	Sample ID	SW-7462-030708-RM-32	SW-7462-030708-RM-33	SW-7462-030708-RM-34	SW-7462-030608-RM-03	SW-7462-030608-RM-04	SW-7462-030608-RM-05	SW-7462-030608-RM-06
	Sample Date	3/7/2008	3/7/2008	3/7/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008
Parameters	Units							
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	-	2 U	-	2 U	-	2 U	-
1,1,2,2-Tetrachloroethane	ug/L	-	2 U	-	2 U	-	2 U	-
1,1,2-Trichloroethane	ug/L	-	2 U	-	2 U	-	2 U	-
1,1-Dichloroethane	ug/L	-	2 U	-	2 U	-	2 U	-
1,1-Dichloroethene	ug/L	-	2 U	-	2 U	-	2 U	-
1,2,4-Trichlorobenzene	ug/L	-	2	-	2 U	-	2 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	2 U	-	2 U	-	2 U	-
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	-	2 U	-	2 U	-	2 U	-
1,2-Dichlorobenzene	ug/L	-	20	-	3	-	1 J	-
1,2-Dichloroethane	ug/L	-	2 U	-	2 U	-	2 U	-
1,2-Dichloropropane	ug/L	-	2 U	-	2 U	-	2 U	-
1,3-Dichlorobenzene	ug/L	-	6	-	2 U	-	2 U	-
1,4-Dichlorobenzene	ug/L	-	13	-	1 B	-	2 U	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	-	5 U	-	5 U	-	5 U	-
2-Hexanone	ug/L	-	5 U	-	5 U	-	5 U	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	-	5 U	-	5 U	-	5 U	-
Acetone	ug/L	-	3 J	-	2 J	-	3 J	-
Benzene	ug/L	-	7	-	0.7 U	-	0.7 U	-
Bromodichloromethane	ug/L	-	2 U	-	2 U	-	2 U	-
Bromoform	ug/L	-	2 U	-	2 U	-	2 U	-
Bromomethane (Methyl Bromide)	ug/L	-	2 U	-	2 U	-	2 U	-
Carbon disulfide	ug/L	-	2 U	-	2 U	-	2 U	-
Carbon tetrachloride	ug/L	-	2 U	-	7	-	5	-
Chlorobenzene	ug/L	-	6	-	2 U	-	2 U	-
Chloroethane	ug/L	-	2 U	-	2 U	-	2 U	-
Chloroform (Trichloromethane)	ug/L	-	2 U	-	5	-	4	-
Chloromethane (Methyl Chloride)	ug/L	-	2 U	-	2 U	-	2 U	-
cis-1,2-Dichloroethene	ug/L	-	2 U	-	2 U	-	2 U	-
cis-1,3-Dichloropropene	ug/L	-	2 U	-	2 U	-	2 U	-
Cyclohexane	ug/L	-	2 U	-	2 U	-	2 U	-
Dibromochloromethane	ug/L	-	2 U	-	2 U	-	2 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	2 U	-	2 U	-	2 U	-
Ethylbenzene	ug/L	-	2 U	-	2 U	-	2 U	-
Isopropylbenzene	ug/L	-	2 U	-	2 U	-	2 U	-
Methyl acetate	ug/L	-	2 U	-	2 U	-	2 U	-
Methyl cyclohexane	ug/L	-	2 U	-	2 U	-	2 U	-
Methyl Tert Butyl Ether	ug/L	-	2 U	-	2 U	-	2 U	-
Methylene chloride	ug/L	-	2 U	-	2 U	-	2 U	-
Styrene	ug/L	-	2 U	-	2 U	-	2 U	-
Tetrachloroethene	ug/L	-	2 U	-	10	-	14	-
Toluene	ug/L	-	2 U	-	2 U	-	2 U	-

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

Sample Location	STATION-M	STATION-N	STATION-N	STATION-S	STATION-S	STATION-T	STATION-T
Sample ID	SW-7462-030708-RM-32	SW-7462-030708-RM-33	SW-7462-030708-RM-34	SW-7462-030608-RM-03	SW-7462-030608-RM-04	SW-7462-030608-RM-05	SW-7462-030608-RM-06
Sample Date	3/7/2008	3/7/2008	3/7/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008
Parameters	Units						
Volatile Organic Compounds (Cont'd.)							
trans-1,2-Dichloroethene	ug/L	-	2 U	-	2 U	-	2 U
trans-1,3-Dichloropropene	ug/L	-	2 U	-	2 U	-	2 U
Trichloroethene	ug/L	-	2 U	-	2 U	-	2 U
Trichlorofluoromethane (CFC-11)	ug/L	-	2 U	-	2 U	-	2 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	2 U	-	2 U	-	2 U
Vinyl chloride	ug/L	-	2 U	-	2 U	-	2 U
Xylene (total)	ug/L	-	2 U	-	2 U	-	2 U
Metals							
Calcium	ug/L	-	54400	-	21400	-	19200
Manganese	ug/L	-	9510	-	892	-	512
Mercury	ug/L	0.52	0.86	0.78	11.1	12.1	22.2
Mercury (Dissolved)	ug/L	-	0.10 U	-	1.3	-	3.4
Potassium	ug/L	-	42200	-	89100	-	79600
Sodium	ug/L	-	359000	-	347000	-	273000
General Chemistry							
Alkalinity, Total (As CaCO ₃)	mg/L	-	156	-	82.2	-	89.8
Carbonate	mg/L	-	1 U	-	1 U	-	1 U
Chloride	mg/L	-	515	-	455	-	560
Sulfate	mg/L	-	265	-	114	-	124
Total Suspended Solids (TSS)	mg/L	-	23	-	4 U	-	9

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

Sample Location	STATION-U	STATION-U	STATION-V	STATION-V	STATION-W	STATION-W	STATION-X
Sample ID	SW-7462-030608-RM-07	SW-7462-030608-RM-08	SW-7462-030608-RM-09	SW-7462-030608-RM-10	SW-7462-030708-RM-21	SW-7462-030708-RM-22	SW-7462-030708-RM-23
Sample Date	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/7/2008	3/7/2008	3/7/2008
Parameters	Units						
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	2 U	-	2 U	-	2 U	2 U
1,1,2,2-Tetrachloroethane	ug/L	2 U	-	2 U	-	2 U	2 U
1,1,2-Trichloroethane	ug/L	2 U	-	2 U	-	2 U	2 U
1,1-Dichloroethane	ug/L	2 U	-	2 U	-	2 U	2 U
1,1-Dichloroethene	ug/L	2 U	-	2 U	-	2 U	2 U
1,2,4-Trichlorobenzene	ug/L	1 J	-	1 J	-	40	24
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2 U	-	2 U	-	2 U	2 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	2 U	-	2 U	-	2 U	2 U
1,2-Dichlorobenzene	ug/L	5	-	6	-	210	170
1,2-Dichloroethane	ug/L	2 U	-	2 U	-	2 U	2 U
1,2-Dichloropropane	ug/L	2 U	-	2 U	-	2 U	2 U
1,3-Dichlorobenzene	ug/L	1 J	-	1 J	-	74	33
1,4-Dichlorobenzene	ug/L	2 B	-	3 B	-	260	190
2-Butanone (Methyl Ethyl Ketone)	ug/L	5 U	-	5 U	-	5 U	5 U
2-Hexanone	ug/L	5 U	-	5 U	-	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5 U	-	5 U	-	5 U	5 U
Acetone	ug/L	3 J	-	3 J	-	3 J	3 J
Benzene	ug/L	0.7 U	-	0.7 U	-	18	24
Bromodichloromethane	ug/L	2 U	-	2 U	-	2 U	2 U
Bromoform	ug/L	2 U	-	2 U	-	2 U	2 U
Bromomethane (Methyl Bromide)	ug/L	2 U	-	2 U	-	2 U	2 U
Carbon disulfide	ug/L	2 U	-	2 U	-	2 U	2 U
Carbon tetrachloride	ug/L	4	-	7	-	3	4
Chlorobenzene	ug/L	2 U	-	2 U	-	290	110
Chloroethane	ug/L	2 U	-	2 U	-	2 U	2 U
Chloroform (Trichloromethane)	ug/L	3	-	5	-	1 J	1 J
Chloromethane (Methyl Chloride)	ug/L	2 U	-	2 U	-	2 U	2 U
cis-1,2-Dichloroethene	ug/L	2 U	-	2 U	-	2 U	2 U
cis-1,3-Dichloropropene	ug/L	2 U	-	2 U	-	2 U	2 U
Cyclohexane	ug/L	2 U	-	2 U	-	2 U	2 U
Dibromochloromethane	ug/L	2 U	-	2 U	-	2 U	2 U
Dichlorodifluoromethane (CFC-12)	ug/L	2 U	-	2 U	-	2 U	2 U
Ethylbenzene	ug/L	2 U	-	2 U	-	2 U	2 U
Isopropylbenzene	ug/L	2 U	-	2 U	-	2 U	2 U
Methyl acetate	ug/L	2 U	-	2 U	-	2 U	2 U
Methyl cyclohexane	ug/L	2 U	-	2 U	-	2 U	2 U
Methyl Tert Butyl Ether	ug/L	2 U	-	2 U	-	2 U	2 U
Methylene chloride	ug/L	2 U	-	2 U	-	2 U	2 U
Styrene	ug/L	2 U	-	2 U	-	2 U	2 U
Tetrachloroethene	ug/L	6	-	7	-	1 J	2
Toluene	ug/L	2 U	-	2 U	-	2 U	2 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

Sample Location	STATION-U	STATION-U	STATION-V	STATION-V	STATION-W	STATION-W	STATION-X
Sample ID	SW-7462-030608-RM-07	SW-7462-030608-RM-08	SW-7462-030608-RM-09	SW-7462-030608-RM-10	SW-7462-030708-RM-21	SW-7462-030708-RM-22	SW-7462-030708-RM-23
Sample Date	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/7/2008	3/7/2008	3/7/2008
Parameters	Units						
Volatile Organic Compounds (Cont'd.)							
trans-1,2-Dichloroethene	ug/L	2 U	-	2 U	-	2 U	2 U
trans-1,3-Dichloropropene	ug/L	2 U	-	2 U	-	2 U	2 U
Trichloroethene	ug/L	2 U	-	2 U	-	2 U	2 U
Trichlorofluoromethane (CFC-11)	ug/L	2 U	-	2 U	-	2 U	2 U
Trifluorotrichloroethane (Freon 113)	ug/L	2 U	-	2 U	-	2 U	2 U
Vinyl chloride	ug/L	2 U	-	2 U	-	2 U	2 U
Xylene (total)	ug/L	2 U	-	2 U	-	2 U	2 U
Metals							
Calcium	ug/L	24200	-	24600	-	58300	53300
Manganese	ug/L	1360	-	1390	-	9330	8860
Mercury	ug/L	7.0	7.6	7.8	12.8	0.27	1.4
Mercury (Dissolved)	ug/L	1.9	-	1.7	-	0.10 U	0.10 U
Potassium	ug/L	81900	-	105000	-	45900	42600
Sodium	ug/L	348000	-	440000	-	430000	372000
General Chemistry							
Alkalinity, Total (As CaCO ₃)	mg/L	91.0	-	98.8	-	122	130
Carbonate	mg/L	1 U	-	1 U	-	1 U	1 U
Chloride	mg/L	597	-	830	-	684	543
Sulfate	mg/L	139	-	147	-	188	256
Total Suspended Solids (TSS)	mg/L	5	-	6	-	12	20

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

Parameters	Sample Location	STATION-X	STATION-X	STATION-X
	Sample ID	SW-7462-030708-RM-25	SW-7462-030708-RM-24	SW-7462-030708-RM-26
	Sample Date	3/7/2008	3/7/2008	3/7/2008
		Duplicate		Duplicate
Units				
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	2 U	-	-
1,1,2,2-Tetrachloroethane	ug/L	2 U	-	-
1,1,2-Trichloroethane	ug/L	2 U	-	-
1,1-Dichloroethane	ug/L	2 U	-	-
1,1-Dichloroethene	ug/L	2 U	-	-
1,2,4-Trichlorobenzene	ug/L	26	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2 U	-	-
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	2 U	-	-
1,2-Dichlorobenzene	ug/L	170	-	-
1,2-Dichloroethane	ug/L	2 U	-	-
1,2-Dichloropropane	ug/L	2 U	-	-
1,3-Dichlorobenzene	ug/L	33	-	-
1,4-Dichlorobenzene	ug/L	190	-	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	5 U	-	-
2-Hexanone	ug/L	5 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5 U	-	-
Acetone	ug/L	4 J	-	-
Benzene	ug/L	25	-	-
Bromodichloromethane	ug/L	2 U	-	-
Bromoform	ug/L	2 U	-	-
Bromomethane (Methyl Bromide)	ug/L	2 U	-	-
Carbon disulfide	ug/L	2 U	-	-
Carbon tetrachloride	ug/L	4	-	-
Chlorobenzene	ug/L	120	-	-
Chloroethane	ug/L	2 U	-	-
Chloroform (Trichloromethane)	ug/L	1 J	-	-
Chloromethane (Methyl Chloride)	ug/L	2 U	-	-
cis-1,2-Dichloroethene	ug/L	2 U	-	-
cis-1,3-Dichloropropene	ug/L	2 U	-	-
Cyclohexane	ug/L	2 U	-	-
Dibromochloromethane	ug/L	2 U	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	2 U	-	-
Ethylbenzene	ug/L	2 U	-	-
Isopropylbenzene	ug/L	2 U	-	-
Methyl acetate	ug/L	2 U	-	-
Methyl cyclohexane	ug/L	2 U	-	-
Methyl Tert Butyl Ether	ug/L	2 U	-	-
Methylene chloride	ug/L	2 U	-	-
Styrene	ug/L	2 U	-	-
Tetrachloroethene	ug/L	2	-	-
Toluene	ug/L	2 U	-	-

TABLE 2

ANALYTICAL RESULTS SUMMARY
MONTHLY TRIBUTARY SAMPLING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY, DELAWARE
MARCH 2008

	Sample Location			
	STATION-X			
	Sample ID	SW-7462-030708-RM-25	SW-7462-030708-RM-24	SW-7462-030708-RM-26
	Sample Date	3/7/2008	3/7/2008	3/7/2008
Parameters	Units	Duplicate		Duplicate
Volatile Organic Compounds (Cont'd.)				
trans-1,2-Dichloroethene	ug/L	2 U	-	-
trans-1,3-Dichloropropene	ug/L	2 U	-	-
Trichloroethene	ug/L	2 U	-	-
Trichlorofluoromethane (CFC-11)	ug/L	2 U	-	-
Trifluorotrichloroethane (Freon 113)	ug/L	2 U	-	-
Vinyl chloride	ug/L	2 U	-	-
Xylene (total)	ug/L	2 U	-	-
Metals				
Calcium	ug/L	53100	-	-
Manganese	ug/L	8830	-	-
Mercury	ug/L	1.1	0.85	0.76
Mercury (Dissolved)	ug/L	0.10 U	-	-
Potassium	ug/L	42000	-	-
Sodium	ug/L	368000	-	-
General Chemistry				
Alkalinity, Total (As CaCO ₃)	mg/L	122	-	-
Carbonate	mg/L	1 U	-	-
Chloride	mg/L	545	-	-
Sulfate	mg/L	257	-	-
Total Suspended Solids (TSS)	mg/L	20	-	-

Notes:

- Not analyzed.
- B Analyte detected in the associated blank at similar level.
- J Estimated.
- U Not detected.

TABLE 3
 QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANK
 MONTHLY TRIBUTARY SAMPLING
 GLENN SPRINGS HOLDINGS, INC.
 DELAWARE CITY, DELAWARE
 MARCH 2008

<i>Parameter</i>	<i>Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Associated Sample ID</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Units</i>
VOCs	03/07/08	1,4-Dichlorobenzene	1 J	SW-7462-030608-RM-01	2 J	2 B	ug/L
				SW-7462-030608-RM-03	1 J	1 B	ug/L
				SW-7462-030608-RM-07	2 J	2 B	ug/L
				SW-7462-030608-RM-09	3 J	3 B	ug/L

Notes:

B Analyte detected in the associated blank at similar level.

J Estimated.

VOCs Volatile Organic Compound.

SAMPLE TIME: 1045

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: 2-5-08
Personnel: M. Wayock

Monitoring Well Data:

*Well No.: A-49

Measurement Point: _____

Constructed Well Depth (ft): _____

*Measured Well Depth (ft): 34.90

Depth of Sediment (ft): _____

Screen Length (ft): _____

Depth to Pump Intake (ft)⁽¹⁾: _____

Well Diameter, D (in): _____

Well Screen Volume, V_s (mL)⁽²⁾: _____

*Initial Depth to Water (ft): 8.64

*Depth to Water after pump installed (ft): 8.64

[illegible]

Notes:

VOL PURGED= 6.5 gal

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$ Ferrous Iron(Fe+2)= 0.0
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p / V_s . WATER QUALITY: clear color

Ferrous Iron(Fe+2)= 0.0 mg/L PID= 0.0 ppm

WATER QUALITY: clear, colorless

TL7 D15 Hg

SAMPLE ID: GW-7462-020508-MDW-002SAMPLE TIME: 1210MONITORING WELL RECORD FOR LOW-FLOW PURGING**Project Data:**Project Name: Oxy Delaware CityDate: 2-5-08Ref. No.: 7462Personnel: M. Wayock**Monitoring Well Data:***Well No.: A-44

Screen Length (ft): _____

Measurement Point: _____

Depth to Pump Intake (ft)⁽¹⁾: _____

Constructed Well Depth (ft): _____

Well Diameter, D (in): _____

*Measured Well Depth (ft): 40.05Well Screen Volume, V_s (mL)⁽²⁾: _____

Depth of Sediment (ft): _____

*Initial Depth to Water (ft): 10.21*Depth to Water after pump installed (ft): 10.20

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown		pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
			from Initial	Water Level ⁽³⁾								
1050	450	10.25			4.68	14.4	3.83	132	1.19	378		
1120	465				4.87	14.9	3.78	133	0.69	225		
1125		10.22			4.92	14.9	3.78	131	0.73	176		
1130					4.96	14.9	3.77	130	0.74	135		
1135	455				5.03	14.9	3.76	128	0.78	106		
1140		10.23			5.11	15.0	3.75	123	0.86	83		
1145					5.15	15.0	3.76	119	0.95	69		
1150	455				5.17	14.9	3.75	116	0.91	66		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .VOL PURGED = 6.5 galFerrous Iron(Fe+2) = 0.0 mg/L PID = 0.0 ppmWATER QUALITY: clear, colorless

7L + 0.155 Hg

SAMPLE TIME: 1345

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: 2-5-08
Personnel: M. Wayock

Monitoring Well Data:

*Well No.:	<u>A-50</u>	Screen Length (ft):	_____
Measurement Point:	_____	Depth to Pump Intake (ft) ⁽¹⁾ :	_____
Constructed Well Depth (ft):	_____	Well Diameter, D (in):	_____
*Measured Well Depth (ft):	<u>40.15</u>	Well Screen Volume, V _s (mL) ⁽²⁾ :	_____
Depth of Sediment (ft):	_____	*Initial Depth to Water (ft):	<u>11.12</u>
		*Depth to Water after pump installed (ft):	<u>11.12</u>

[illegible]

Notes:

VOL PURGED= 6.5 gal

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$

Ferrous Iron(Fe+2)= 0.0 mg/L PID= 0.0 ppm

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be

stablizing), No. of Well Screen Volumes Purged= V_p/V_s .

WATER QUALITY: clear, colorless

Same

rinse blank

sample ID: RB-7462-020508-MW-005

sample time: 1625

SAMPLE ID: GW-7462-020508-MW-004

SAMPLE TIME: ~~1625~~ ^{MW} 1615

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: 2-5-08
Personnel: M. Wayock

Monitoring Well Data:

*Well No.: A-27D Screen Length (ft): _____
Measurement Point: _____ Depth to Pump Intake (ft)⁽¹⁾: _____
Constructed Well Depth (ft): _____ Well Diameter, D (in): _____
*Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: _____
Depth of Sediment (ft): _____ *Initial Depth to Water (ft): 21.18
*Depth to Water after pump installed (ft): 21.18

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1405	450	21.20		7.38	15.1	12.6	25	1.96	21		
1450	475	21.20		7.72	15.3	16.2	3	0.40	0		
1535	475			7.43	15.3	18.4	-6	0.35	0		
1540		21.19		7.42	15.3	18.4	-6	0.36	0		
1545				7.41	15.3	18.5	-7	0.36	0		
1550	475			7.41	15.3	18.5	-7	0.35	0		

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

VOL PURGED= 12.0 gal

Ferrous Iron(Fe+2)= 0.0 mg/L PID= 0.0 ppm

WATER QUALITY: clear, color less

J Amie

SAMPLE TIME: 1230

Project Data:

Date: 2-8-08
Personnel: M. Wayock

Monitoring Well Data:

*Well No.: tributary SW samples

Measurement Point: _____

Constructed Well Depth (ft): _____

*Measured Well Depth (ft):

Depth of Sediment (ft): _____

Screen Length (ft): _____

Depth to Pump Intake (ft)⁽¹⁾: _____

Well Diameter, D (in): _____

Well Screen Volume, V_s (mL)⁽²⁾: _____

*Initial Depth to Water (ft):

*Depth to Water after pump installed (ft):

[illegible]

Notes:

VOL PURGED= 1

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$ Ferrous Iron(Fe+2) = _____
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- WATER QUALITY: _____

WATER QUALITY:

Tel: (631) 694-3040 Fax: (631) 420-8436

EXTERNAL CHAIN OF CUSTODY

PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076

Tel: (631) 694-3040 Fax: (631) 420-8436

24547

EXTERNAL CHAIN OF CUSTODY

CLIENT:				H2M SDG NO:															
PROJECT NAME/NUMBER Oxy - DE City / 7462-A0531 surface water SAMPLERS: (signature)/Client DELIVERABLES: TURNAROUND TIME:				Sample Container Description VOC's T-Hg Diss-Hg (Filtered) Diss-Metals (Filtered)				NOTES:								Project Contact: Paul McMahon Phone Number: 76-297-6150 PIS/Quote #			
				ANALYSIS REQUESTED															
				ORGANIC				INORG.											
				VOA BNA Pcb/PCB				Metal CN											
				LAB I.D. NO.				REMARKS:											
DATE	TIME	MATRIX	FIELD I.D.																
2-8-08	1230	W	FB-7462-020808-MTW-001	4	X	X	X	X							Filter blank				
2-8-08	1330	SW	SW-7462-020808-MTW-002	4	X	X	X	X											
2-8-08	1340	SW	SW-7462-020808-MTW-003	4	X	X	X	X											
2-8-08	1350	SW	SW-7462-020808-MTW-004	4	X	X	X	X											
2-8-08	1400	SW	SW-7462-020808-MTW-005	4	X	X	X	X											
2-8-08	1410	SW	SW-7462-020808-MTW-006	4	X	X	X	X											
2-8-08	1420	SW	SW-7462-020808-MTW-007	4	X	X	X	X											
2-8-08	1430	SW	SW-7462-020808-MTW-008	12	X	X	X	X							MS/MSD				
2-8-08	1440	SW	SW-7462-020808-MTW-009	4	X	X	X	X											
2-8-08	1450	SW	SW-7462-020808-MTW-010	4	X	X	X	X							Field duplicate				
Relinquished by: (Signature) 				Date 2-8-08		Time 1300		Received by: (Signature)				Date		Time		LABORATORY USE ONLY Discrepancies Between Sample Labels and COC Record? Y or N Explain: Samples were: 1. Shipped ___ or Hand Delivered ___ Airbill# ___ 2. Ambient or chilled, Temp _____ 3. Received in good condition: Y or N 4. Properly preserved: Y or N COC Tape was: 1. Present on outer package: Y or N 2. Unbroken on outer package: Y or N 3. COC record present & complete upon sample receipt: Y or N			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

SAMPLE TIME: 1040

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Date: 2-6-08
Personnel: M. Wayock

Monitoring Well Data:

*Well No.:	<u>A-275</u>	Screen Length (ft):	<u> </u>
Measurement Point:	<u> </u>	Depth to Pump Intake (ft) ⁽¹⁾ :	<u> </u>
Constructed Well Depth (ft):	<u> </u>	Well Diameter, D (in):	<u> </u>
*Measured Well Depth (ft):	<u>32.60</u>	Well Screen Volume, V _s (mL) ⁽²⁾ :	<u> </u>
Depth of Sediment (ft):	<u> </u>	*Initial Depth to Water (ft):	<u>21.47</u>
		*Depth to Water after pump installed (ft):	<u>21.46</u>

[illegible]

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$ Ferrous Iron(Fe+2) = 0.0 mg/L
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s WATER QUALITY: clear colorless

VOL PURGED= 12.0 gal

Ferrous Iron(Fe+2)=0.0 mg/L PID= 0.0 ppm

WATER QUALITY: clear, colorless

SAMPLE TIME: 1125

Project Data:

Date: 2-6-08

Personnel: M. Wayack

*Well No.: A-66 D

Screen Length (ft):

Depth to Pump Intake (ft)⁽¹⁾:

Well Diameter, D (in):

*Measured Well Depth (ft): 60.00

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft):

*Initial Depth to Water (ft): 14.07

*Depth to Water after pump installed (ft): 14.07

[illegible]

Notes:

VOL PURGED= 3.5 gal

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$ Ferrous Iron(Fe+2) = 0.0 mg/L
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p / V_s WATER QUALITY: 1.1 mg/L

Ferrous Iron(Fe+2)=0.0mg/L PID= 0.0 ppm

WATER QUALITY: turbid

SAMPLE TIME: 1215

Project Data:

Date: 2-6-08

Personnel: M. Wayock

Monitoring Well Data:

*Well No.: A-66S

Screen Length (ft):

Measurement Point:

Depth to Pump Intake (ft)⁽¹⁾:

Constructed Well Depth (ft):

Well Diameter, D (in):

*Measured Well Depth (ft): 25.10

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft):

*Initial Depth to Water (ft): 14.57

*Depth to Water after pump installed (ft): 14.57

[illegible]

Notes:

VOL PURGED= 3.5 gal

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$ Ferrous Iron(Fe+2) = 0.0 mg/L
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s WATER QUALITY: all pass

Ferrous Iron(Fe+2)=0.0 mg/L PID= 0.0 ppm

WATER QUALITY: *clear, colorless*

SAMPLE ID: GW-7462-020608-MJW-009

SAMPLE TIME: 1355

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City

Ref. No.: 7462

Date: 2-6-04

Personnel: M. Wayock

Monitoring Well Data:

*Well No.: A-67 D

Screen Length (ft):

Measurement Point:

Depth to Pump Intake (ft)⁽¹⁾:

Constructed Well Depth (ft):

Well Diameter, D (in):

*Measured Well Depth (ft):

62.50

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft):

***Initial Depth to Water (ft):**

9.73

*Depth to Water after pump installed (ft):

9.74

[illegible]

Notes:

VOL PURGED= 4.5 gal

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$ Ferrous Iron(Fe+2) = 0.5
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s WATER QUALITY: High

Ferrous Iron(Fe+2)= 0.5 mg/L PID= 0.0 ppm

WATER QUALITY: turbid

SAMPLE TIME: 1445

Project Data:

Date: 2-6-08

Personnel: M. Waxock

Monitoring Well Data:

*Well No.: A-675

Screen Length (ft):

Measurement Point:

Depth to Pump Intake (ft)⁽¹⁾:

Constructed Well Depth (ft):

Well Diameter, D (in):

*Measured Well Depth (ft):

22.90

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft):

*Initial Depth to Water (ft): 10.17

*Depth to Water after pump installed (ft): 10.16

[illegible]

Notes:

VOL PURGED= 3.5 gal

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2 \times (5' \times 12) \times (2.54)^3$ Ferrous Iron(Fe+2) = 1.0
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s WATER QUALITY: clear, 20/2/1

Ferrous Iron(Fe+2)= 1.0

PID = 0.0 ppm

WATER QUALITY: clear, colorless

SAMPLE TIME: 1550

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: _____
Personnel: _____

*Well No.: A-69

Screen Length (ft):

Measurement Point: _____

Depth to Pump Intake (ft)⁽¹⁾: _____

Constructed Well Depth (ft): _____

Well Diameter, D (in): _____

* Measured Well Depth (ft): 20.00

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft):

*Initial Depth to Water (ft): 4.28

*Depth to Water after pump installed (ft):

[illegible]

Notes:

VOL PURGED= 3.5 gal

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$

Ferrous Iron(Fe+2)=0.8mg/L PID= 7.8 ppm

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p / V_s .

WATER QUALITY: *forbid*

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076

Tel: (631) 694-3040 Fax: (631) 420-8436

24543

EXTERNAL CHAIN OF CUSTODY

CLIENT:				H2M SDG NO:										
PROJECT NAME/NUMBER Oxy - DE City PMP 7462-A0531				Sample Container Description	VOC's	T-Hg	Diss. - Hg (Filtered)	T-metals	Diss. - metals (Filtered)				NOTES: <div style="border: 1px solid black; padding: 5px;"> Project Contact: Paul McMahon Phone Number: 716-297-6150 PIS/Quote # </div>	
SAMPLERS: (signature)/Client 				Total No. of Containers	ANALYSIS REQUESTED									
DELIVERABLES:					ORGANIC				INORG.					
TURNAROUND TIME:					VOA	PAH	PCB					Metal	CN	
DATE	TIME	MATRIX	FIELD I.D.											
2-6-08	1040	GW	GW-7462-020608-MTW-006	4	X	X	X							
2-6-08	1125	GW	GW-7462-020608-MTW-007	4	X	X	X							
2-6-08	1215	GW	GW-7462-020608-MTW-008	4	X	X	X							
2-6-08	1355	GW	GW-7462-020608-MTW-009	4	X	X	X							
2-6-08	1445	GW	GW-7462-020608-MTW-010	4	X	X	X							
2-6-08	1550	GW	GW-7462-020608-MTW-011	12	X	X	X	X	X					MS/MSD
2-6-08	—	W	trip blank	2	X									trip blank
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	LABORATORY USE ONLY <div style="display: flex;"> <div style="flex: 1;"> Discrepancies Between Sample Labels and COC Record? Y or N Explain: _____ _____ _____ _____ _____ </div> <div style="flex: 1;"> Samples were: 1. Shipped ___ or Hand Delivered ___ Airbill# _____ 2. Ambient or chilled, Temp. _____ 3. Received in good condition: Y or N 4. Properly preserved: Y or N COC Tape was: 1. Present on outer package: Y or N 2. Unbroken on outer package: Y or N 3. COC record present & complete upon sample receipt: Y or N </div> </div>				
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time					
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time					
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time					

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

SAMPLE ID: 6W-7462-00708-012/013 Dup

SAMPLE TIME: 1040 / 1045

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: 02-07-08
Personnel: A. H. M. F. C.

Monitoring Well Data:

*Well No.: A-70

Screen Length (ft):

Measurement Point: _____

Depth to Pump Intake (ft)⁽¹⁾: _____

Constructed Well Depth (ft): _____

Well Diameter, D (in): _____

*Measured Well Depth (ft): 13.71

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft):

*Initial Depth to Water (ft): 351

*Depth to Water after pump installed (ft): 2.57

[illegible]

Notes:

VOL PURGED= 3.8 gm

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$ Ferrous Iron(Fe+2) = 0.30
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s WATER QUALITY: 100 - 50

Ferrous Iron(Fe+2)=0.3mg/L PID= 0.0ppm

WATER QUALITY: Clear, colorless

SAMPLE ID: GW-7462-020708-04

SAMPLE TIME: 1155

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: 02-07-08
Personnel: A. Hunter

Monitoring Well Data:

*Well No.: A-71

Screen Length (ft):

Measurement Point: _____

Depth to Pump Intake (ft)⁽¹⁾: _____

Constructed Well Depth (ft): _____

Well Diameter, D (in): _____

*Measured Well Depth (ft): 16.39

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft): _____

*Initial Depth to Water (ft): 5.14

*Depth to Water after pump installed (ft): 5.15

[illegible]

Notes:

VOL PURGED= 2.5 gal

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

- (2) The well screen volume will be based on a 5-foot screen length, $V_s = p \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$

Ferrous Iron(Fe+2)= 0.5 mg/L PID= 0.0 ppm

- (3) The drawdown from the initial water level should not exceed 0.3 ft.

- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s . **WATER QUALITY:** 0 per = 1.56

WATER QUALITY: Clear, light brown color

charged
batteries in
1-hour

SAMPLE ID: GW-7462-020708-015

SAMPLE TIME: 1305

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: 02-07-08
Personnel: A. Flynter

Monitoring Well Data:

*Well No.: A-25

Measurement Point: _____

Constructed Well Depth (ft): _____

*Measured Well Depth (ft): 17.23

Depth of Sediment (ft): _____

Screen Length (ft): _____

Depth to Pump Intake (ft)⁽¹⁾: _____

Well Diameter, D (in): _____

Well Screen Volume, V_s (mL)⁽²⁾: _____

*Initial Depth to Water (ft): 4.10

*Depth to Water after pump installed (ft): 3.82

[illegible]

Notes:

VOL PURGED= 2.0 gal

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$ Ferrous Iron(Fe+2) = 3.72
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s WATER QUALITY: 1.0

Ferrous Iron(Fe+2)= 3.7 mg/L PID=

WATER QUALITY: Turbid, Light brown

SAMPLE TIME: 1420

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City
Ref. No.: 7462

Date: 02-07-05
Personnel: A Hunter

Monitoring Well Data:

Monitoring Well Data:

*Well No.:	A-65	Screen Length (ft):	
Measurement Point:		Depth to Pump Intake (ft) ⁽¹⁾ :	
Constructed Well Depth (ft):		Well Diameter, D (in):	
*Measured Well Depth (ft):	60.08	Well Screen Volume, V _s (mL) ⁽²⁾ :	
Depth of Sediment (ft):		*Initial Depth to Water (ft):	6.28
		*Depth to Water after pump installed (ft):	6.29

[illegible]

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$ Ferrous Iron(Fe+2) = 3.9 mg/L
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s WATER QUALITY: 1.0 mg/L

VOL1 JURGED= 3.5 gal

Ferrous Iron(Fe+2) = 3.9 mg/L PID = 0.0 ppm

the stablization criteria and appear to be

WATER QUALITY: turbid, light⁺ Brown color

SAMPLE ID: GW-1962-020108-017

SAMPLE TIME: 1533

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Oxy Delaware City

Ref. No.: 7462

Date: 02-07-08

Personnel: A. Elvater

Monitoring Well Data:

*Well No.: A-77

Screen Length (ft):

Measurement Point:

Depth to Pump Intake (ft)⁽¹⁾:

Constructed Well Depth (ft):

Well Diameter, D (in):

* Measured Well Depth (ft): 53.79

Well Screen Volume, V_s (mL)⁽²⁾:

Depth of Sediment (ft):

* Initial Depth to Water (ft):

*Depth to Water after pump installed (ft):

[illegible]

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
 - (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
 - (3) The drawdown from the initial water level should not exceed 0.3 ft.
 - (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- Ferrous Iron(Fe+2) = 2.5
WATER QUALITY: Turbid 1.5

VOL PURGED= 3.5 gal

Ferrous Iron(Fe+2)= 2.5mg/L PID= 0.0ppm

WATER QUALITY: Turbid, light brown color

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EXTERNAL CHAIN OF CUSTODY

PINK COPY - LABORATORY

Tel: (631) 694-3040 Fax: (631) 420-8436

EXTERNAL CHAIN OF CUSTODY

PINK COPY - LABORATORY

ATTACHMENT C

ANALYTICAL RESULTS SUMMARY
WATER TREATMENT SYSTEM
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
JANUARY TO MARCH 2008

Sample Location:				CARBON-INFLUENT	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED
Sample ID:				GW-7462-020808-019	WW 7462 010308	WW 7462 010808	CARBON INTERBED	WW 7462 011708	CARBON INTERBED	WW 7462 012208	CARBON INTERBED
Sample Date:				2/8/2008	1/3/2008	1/8/2008		1/17/2008		1/22/2008	1/31/2008
											2/5/2008
											2/13/2008
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type							
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	410	200	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	2400	0.0527	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	87	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	740	896.5	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	25	7	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	50	70	MCL	35	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	0.2	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	0.05	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	14	600	MCL	470 ^a	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	980	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	525	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	52	18.25	RBC	52 ^a	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	16	75	MCL	610 ^{ab}	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	6968	RBC	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	ug/L	99	-	-	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	6278	RBC	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	ug/L	1500	5475	RBC	5 U	14	5 U	8	5 U	5 U	5 U
Benzene	ug/L	98	5	MCL	870 ^{ab}	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Bromodichloromethane	ug/L	110	0.17	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	320	8.48	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl Bromide)	ug/L	110	8.52	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/L	0.92	1042	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	ug/L	9.8	5	MCL	10 ^{ab}	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	64	100	MCL	1400 ^{ab}	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	-	3.64	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform (Trichloromethane)	ug/L	28	0.155	RBC	12 ^a	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane (Methyl Chloride)	ug/L	5500	190	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	590	70	MCL	2	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	0.055	-	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	ug/L	-	12410	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/L	110	0.126	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane (CFC-12)	ug/L	110	347	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	110	700	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	ug/L	-	658	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	ug/L	-	6083	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl cyclohexane	ug/L	-	6278	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tert Butyl Ether	ug/L	-	2.64	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	1500	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	241	100	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	60	5	MCL	9 ^a	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/L	94	1000	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1160	100	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	244	-	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	47	5	MCL	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane (CFC-11)	ug/L	110	1288	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	59375	RBC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/L	930	2	MCL	52 ^a	1 U	1 U	1 U	1 U	3 ^a	12 ^a
Xylene (total)	ug/L	13	10000	MCL	1 U	1 U	1 U	1 U	1 U	1 U	1 U

ANALYTICAL RESULTS SUMMARY
WATER TREATMENT SYSTEM
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
JANUARY TO MARCH 2008

Sample Location:	CARBON-INFLUENT				CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED	CARBON-INTERBED
Sample ID:	GW-7462-020808-019				WW 7462 010308	WW 7462 010808 CARBON INTERBED	WW 7462 011708 CARBON INTERBED	WW 7462 012208 CARBON INTERBED	WW 7462 013108 CARBON INTERBED	WW 7462 020508 CARBON INTERBED	WW 7462 021308 CARBON INTERBED
Sample Date:	2/8/2008				1/3/2008	1/8/2008	1/17/2008	1/22/2008	1/31/2008	2/5/2008	2/13/2008
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type							
Metals											
Aluminum	ug/L	87	36500	RBC	2450 K ^a	-	-	-	-	-	-
Aluminum (Dissolved)	ug/L	87	36500	RBC	12.2 B	-	-	-	-	-	-
Antimony	ug/L	30	6	MCL	8.5 J ^b	-	-	-	-	-	-
Antimony (Dissolved)	ug/L	30	6	MCL	2.3 U	-	-	-	-	-	-
Arsenic	ug/L	150	10	MCL	95.9 ^c	-	-	-	-	-	-
Arsenic (Dissolved)	ug/L	150	10	MCL	1.8 U	-	-	-	-	-	-
Barium	ug/L	438	2000	MCL	196 J	-	-	-	-	-	-
Barium (Dissolved)	ug/L	438	2000	MCL	106 J	-	-	-	-	-	-
Beryllium	ug/L	2.4	4	MCL	2.4 B	-	-	-	-	-	-
Beryllium (Dissolved)	ug/L	2.4	4	MCL	0.18 U	-	-	-	-	-	-
Cadmium	ug/L	0.25	5	MCL	12.2 ^{ad}	-	-	-	-	-	-
Cadmium (Dissolved)	ug/L	0.25	5	MCL	1.1 B ^a	-	-	-	-	-	-
Calcium	ug/L	-	-	-	28200	-	-	-	-	-	-
Calcium (Dissolved)	ug/L	-	-	-	32400	-	-	-	-	-	-
Chromium Total	ug/L	11	100	MCL	542 ^{ad}	-	-	-	-	-	-
Chromium Total (Dissolved)	ug/L	11	100	MCL	1.7 B	-	-	-	-	-	-
Cobalt	ug/L	23	730	RBC	84.6 ^c	-	-	-	-	-	-
Cobalt (Dissolved)	ug/L	23	730	RBC	59.1 ^c	-	-	-	-	-	-
Copper	ug/L	9	1460	RBC	6.3 B	-	-	-	-	-	-
Copper (Dissolved)	ug/L	9	1460	RBC	1.2 J	-	-	-	-	-	-
Iron	ug/L	320	10950	RBC	443000 ^{ad}	-	-	-	-	-	-
Iron (Dissolved)	ug/L	320	10950	RBC	907 ^c	-	-	-	-	-	-
Lead	ug/L	2.5	-	-	1.4 U	-	-	-	-	-	-
Lead (Dissolved)	ug/L	2.5	-	-	1.4 U	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	17100	-	-	-	-	-	-
Magnesium (Dissolved)	ug/L	-	-	-	20900	-	-	-	-	-	-
Manganese	ug/L	1300	730	RBC	6500 ^{ad}	-	-	-	-	-	-
Manganese (Dissolved)	ug/L	1300	730	RBC	6950 ^{ad}	-	-	-	-	-	-
Mercury	ug/L	0.77	2	MCL	178 ^{ad}	-	-	-	-	-	-
Mercury (Dissolved)	ug/L	0.77	2	MCL	4.1 ^{ad}	-	-	-	-	-	-
Nickel	ug/L	52	730	RBC	10.3 J	-	-	-	-	-	-
Nickel (Dissolved)	ug/L	52	730	RBC	6.0 B	-	-	-	-	-	-
Potassium	ug/L	-	-	-	1440000	-	-	-	-	-	-
Potassium (Dissolved)	ug/L	-	-	-	1440000	-	-	-	-	-	-
Selenium	ug/L	4.6	50	MCL	21.2 ^c	-	-	-	-	-	-
Selenium (Dissolved)	ug/L	4.6	50	MCL	5.3 ^c	-	-	-	-	-	-
Silver	ug/L	0.36	183	RBC	2.1 B ^a	-	-	-	-	-	-
Silver (Dissolved)	ug/L	0.36	183	RBC	2.2 B ^a	-	-	-	-	-	-
Sodium	ug/L	-	-	-	1160000	-	-	-	-	-	-
Sodium (Dissolved)	ug/L	-	-	-	1160000	-	-	-	-	-	-
Thallium	ug/L	6	2	MCL	8.7 J ^{ad}	-	-	-	-	-	-
Thallium (Dissolved)	ug/L	6	2	MCL	2.3 U	-	-	-	-	-	-
Vanadium	ug/L	12	37	RBC	368 ^{ad}	-	-	-	-	-	-
Vanadium (Dissolved)	ug/L	12	37	RBC	0.89 U	-	-	-	-	-	-
Zinc	ug/L	118.1	10950	RBC	13.8 B	-	-	-	-	-	-
Zinc (Dissolved)	ug/L	118.1	10950	RBC	11.9 B	-	-	-	-	-	-

Notes:
B - Not detected substantially above the level reported in laboratory or field blanks.
J - Estimated concentration.
K - High bias.
U - Not present at or above the associated value.
- Not analyzed.

ANALYTICAL RESULTS SUMMARY
WATER TREATMENT SYSTEM
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
JANUARY TO MARCH 2008

Sample Location:		CARBON-INTERBED		CARBON-INTERBED		CARBON-INTERBED		COLLECTION-TRENCH		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT	
Sample ID:		WW 7462 022108 CARBON INTERBED		WW 7462 022808 CARBON INTERBED		WW 7462 030608 CARBON INTERBED		WW 7462 010808 COLLECTION TRENCH		WW 7462 010808 SYSTEM EFFLUENT		WW 7462 011708 SYSTEM EFFLUENT		WW 7462 012208 SYSTEM EFFLUENT	
Sample Date:		2/21/2008		2/28/2008		3/6/2008		1/8/2008		1/8/2008		1/17/2008		1/22/2008	
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type											
Volatile Organic Compounds															
1,1,1-Trichloroethane	ug/L	410	200	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	2400	0.0527	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	87	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,1-Dichloroethane	ug/L	740	896.5	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,1-Dichloroethene	ug/L	25	7	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	50	70	MCL	1 U	1 U	2	1 U	1 U	1 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	0.2	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	0.05	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	14	600	MCL	1.2	1.7	35 ^a	1 U	1 U	1 U	-	-	-	-	-
1,2-Dichloroethane	ug/L	980	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,2-Dichloropropane	ug/L	525	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	52	18.25	RBC	1 U	1 U	4	1 U	1 U	1 U	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	16	75	MCL	1.5	1.6	43 ^a	1 U	1 U	1 U	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	6968	RBC	5 U	5 U	5 U	5 U	5 U	5 U	-	-	-	-	-
2-Hexanone	ug/L	99	-	-	5 U	5 U	5 U	5 U	5 U	5 U	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	6278	RBC	5 U	5 U	5 U	5 U	5 U	5 U	-	-	-	-	-
Acetone	ug/L	1500	5475	RBC	5 U	5 U	5 U	5 U	5 U	5 U	-	-	-	-	-
Benzene	ug/L	98	5	MCL	2.6	2.0	54 ^b	1	1	0.7 U	-	-	-	-	-
Bromodichloromethane	ug/L	110	0.17	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Bromoform	ug/L	320	8.48	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Bromomethane (Methyl Bromide)	ug/L	110	8.52	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Carbon disulfide	ug/L	0.92	1042	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Carbon tetrachloride	ug/L	9.8	5	MCL	1 U	1 U	1	10 ^{ab}	1 U	1 U	-	-	-	-	-
Chlorobenzene	ug/L	64	100	MCL	3.0	1.9	70 ^a	1	1	1 U	-	-	-	-	-
Chloroethane	ug/L	-	3.64	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	28	0.155	RBC	1 U	1 U	3 ^b	4 ^b	1 U	1 U	-	-	-	-	-
Chloromethane (Methyl Chloride)	ug/L	5500	190	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	590	70	MCL	1 U	1 U	1 U	3	1 U	1 U	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0.055	-	-	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Cyclohexane	ug/L	-	12410	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Dibromochloromethane	ug/L	110	0.126	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	110	347	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Ethylbenzene	ug/L	110	700	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Isopropylbenzene	ug/L	-	658	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Methyl acetate	ug/L	-	6083	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Methyl cyclohexane	ug/L	-	6278	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Methyl Tert Butyl Ether	ug/L	-	2.64	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Methylene chloride	ug/L	1500	5	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Styrene	ug/L	241	100	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Tetrachloroethene	ug/L	60	5	MCL	1 U	1 U	1 U	8 ^b	1 U	1 U	-	-	-	-	-
Toluene	ug/L	94	1000	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	1160	100	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	244	-	-	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Trichloroethene	ug/L	47	5	MCL	1 U	1 U	1 U	5	1 U	1 U	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	110	1288	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	ug/L	-	59375	RBC	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-
Vinyl chloride	ug/L	930	2	MCL	6.3 ^b	7.3 ^b	25 ^b	1 U	1 U	1 U	-	-	-	-	-
Xylene (total)	ug/L	13	10000	MCL	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-

ANALYTICAL RESULTS SUMMARY
WATER TREATMENT SYSTEM
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
JANUARY TO MARCH 2008

Sample Location:					CARBON-INTERBED		CARBON-INTERBED		CARBON-INTERBED		COLLECTION-TRENCH		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT	
Sample ID:					WW 7462 022108 CARBON INTERBED		WW 7462 022808 CARBON INTERBED		WW 7462 030608 CARBON INTERBED		WW 7462 010808 COLLECTION TRENCH		WW 7462 010808 SYSTEM EFFLUENT		WW 7462 011708 SYSTEM EFFLUENT		WW 7462 012208 SYSTEM EFFLUENT	
Sample Date:					2/21/2008		2/28/2008		3/6/2008		1/8/2008		1/8/2008		1/17/2008		1/22/2008	
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type														
Metals																		
Aluminum	ug/L	87	36500	RBC	-		-		-		-		-		-		-	
Aluminum (Dissolved)	ug/L	87	36500	RBC	-		-		-		-		-		-		-	
Antimony	ug/L	30	6	MCL	-		-		-		-		-		-		-	
Antimony (Dissolved)	ug/L	30	6	MCL	-		-		-		-		-		-		-	
Arsenic	ug/L	150	10	MCL	-		-		-		-		-		-		-	
Arsenic (Dissolved)	ug/L	150	10	MCL	-		-		-		-		-		-		-	
Barium	ug/L	438	2000	MCL	-		-		-		-		-		-		-	
Barium (Dissolved)	ug/L	438	2000	MCL	-		-		-		-		-		-		-	
Beryllium	ug/L	2.4	4	MCL	-		-		-		-		-		-		-	
Beryllium (Dissolved)	ug/L	2.4	4	MCL	-		-		-		-		-		-		-	
Cadmium	ug/L	0.25	5	MCL	-		-		-		-		-		-		-	
Cadmium (Dissolved)	ug/L	0.25	5	MCL	-		-		-		-		-		-		-	
Calcium	ug/L	-	-	-	-		-		-		-		-		-		-	
Calcium (Dissolved)	ug/L	-	-	-	-		-		-		-		-		-		-	
Chromium Total	ug/L	11	100	MCL	-		-		-		-		-		-		-	
Chromium Total (Dissolved)	ug/L	11	100	MCL	-		-		-		-		-		-		-	
Cobalt	ug/L	23	730	RBC	-		-		-		-		-		-		-	
Cobalt (Dissolved)	ug/L	23	730	RBC	-		-		-		-		-		-		-	
Copper	ug/L	9	1460	RBC	-		-		-		-		-		4.0		2.6	
Copper (Dissolved)	ug/L	9	1460	RBC	-		-		-		-		-		-		-	
Iron	ug/L	320	10950	RBC	-		-		-		-		-		-		-	
Iron (Dissolved)	ug/L	320	10950	RBC	-		-		-		-		-		-		-	
Lead	ug/L	2.5	-	-	-		-		-		-		-		-		-	
Lead (Dissolved)	ug/L	2.5	-	-	-		-		-		-		-		-		-	
Magnesium	ug/L	-	-	-	-		-		-		-		-		-		25400	
Magnesium (Dissolved)	ug/L	-	-	-	-		-		-		-		-		-		-	
Manganese	ug/L	1300	730	RBC	-		-		-		-		-		-		-	
Manganese (Dissolved)	ug/L	1300	730	RBC	-		-		-		-		-		-		-	
Mercury	ug/L	0.77	2	MCL	-		-		-		-		0.31		0.46		-	
Mercury (Dissolved)	ug/L	0.77	2	MCL	-		-		-		-		-		-		-	
Nickel	ug/L	52	730	RBC	-		-		-		-		-		-		-	
Nickel (Dissolved)	ug/L	52	730	RBC	-		-		-		-		-		-		-	
Potassium	ug/L	-	-	-	-		-		-		-		-		1220000		1330000	
Potassium (Dissolved)	ug/L	-	-	-	-		-		-		-		-		-		-	
Selenium	ug/L	4.6	50	MCL	-		-		-		-		-		-		-	
Selenium (Dissolved)	ug/L	4.6	50	MCL	-		-		-		-		-		-		-	
Silver	ug/L	0.36	183	RBC	-		-		-		-		-		-		-	
Silver (Dissolved)	ug/L	0.36	183	RBC	-		-		-		-		-		-		-	
Sodium	ug/L	-	-	-	-		-		-		-		-		-		-	
Sodium (Dissolved)	ug/L	-	-	-	-		-		-		-		-		-		-	
Thallium	ug/L	6	2	MCL	-		-		-		-		-		-		-	
Thallium (Dissolved)	ug/L	6	2	MCL	-		-		-		-		-		-		-	
Vanadium	ug/L	12	37	RBC	-		-		-		-		-		-		-	
Vanadium (Dissolved)	ug/L	12	37	RBC	-		-		-		-		-		-		-	
Zinc	ug/L	118.1	10950	RBC	-		-		-		-		-		-		-	
Zinc (Dissolved)	ug/L	118.1	10950	RBC	-		-		-		-		-		-		-	

Notes:
B - Not detected substantially above the level reported in laboratory or field blanks.
J - Estimated concentration.
K - High bias.
U - Not present at or above the associated value.
- Not analyzed.

ANALYTICAL RESULTS SUMMARY
WATER TREATMENT SYSTEM
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
JANUARY TO MARCH 2008

Sample Location:		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT	
Sample ID:		WW 7462 013108 SYSTEM EFFLUENT		WW 7462 020508 SYSTEM EFFLUENT		GW-7462-020808-018		WW 7462 021308 SYSTEM EFFLUENT		WW 7462 022108 SYSTEM EFFLUENT		WW 7462 022808 SYSTEM EFFLUENT		WW 7462 030608 SYSTEM EFFLUENT	
Sample Date:		1/31/2008		2/5/2008		2/8/2008		2/13/2008		2/21/2008		2/28/2008		3/6/2008	
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type											
Volatile Organic Compounds															
1,1,1-Trichloroethane	ug/L	410	200	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,1,2,2-Tetrachloroethane	ug/L	2400	0.0527	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,1,2-Trichloroethane	ug/L	87	5	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,1-Dichloroethane	ug/L	740	896.5	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,1-Dichloroethene	ug/L	25	7	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,2,4-Trichlorobenzene	ug/L	50	70	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	0.2	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	180	0.05	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,2-Dichlorobenzene	ug/L	14	600	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,2-Dichloroethane	ug/L	980	5	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,2-Dichloropropane	ug/L	525	5	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,3-Dichlorobenzene	ug/L	52	18.25	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
1,4-Dichlorobenzene	ug/L	16	75	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
2-Butanone (Methyl Ethyl Ketone)	ug/L	14000	6968	RBC	-	5 U	5 U	-	-	-	-	-	-	5 U	
2-Hexanone	ug/L	99	-	-	-	5 U	5 U	-	-	-	-	-	-	5 U	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	6278	RBC	-	5 U	5 U	-	-	-	-	-	-	5 U	
Acetone	ug/L	1500	5475	RBC	-	5 U	5 U	-	-	-	-	-	-	5 U	
Benzene	ug/L	98	5	MCL	-	0.7 U	0.7 U	-	-	-	-	-	-	0.7 U	
Bromodichloromethane	ug/L	110	0.17	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Bromoform	ug/L	320	8.48	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Bromomethane (Methyl Bromide)	ug/L	110	8.52	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Carbon disulfide	ug/L	0.92	1042	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Carbon tetrachloride	ug/L	9.8	5	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Chlorobenzene	ug/L	64	100	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Chloroethane	ug/L	-	3.64	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Chloroform (Trichloromethane)	ug/L	28	0.155	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Chloromethane (Methyl Chloride)	ug/L	5500	190	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
cis-1,2-Dichloroethene	ug/L	590	70	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
cis-1,3-Dichloropropene	ug/L	0.055	-	-	-	1 U	1 U	-	-	-	-	-	-	1 U	
Cyclohexane	ug/L	-	12410	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Dibromochloromethane	ug/L	110	0.126	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Dichlorodifluoromethane (CFC-12)	ug/L	110	347	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Ethylbenzene	ug/L	110	700	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Isopropylbenzene	ug/L	-	658	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Methyl acetate	ug/L	-	6083	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Methyl cyclohexane	ug/L	-	6278	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Methyl Tert Butyl Ether	ug/L	-	2.64	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Methylene chloride	ug/L	1500	5	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Styrene	ug/L	241	100	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Tetrachloroethene	ug/L	60	5	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Toluene	ug/L	94	1000	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
trans-1,2-Dichloroethene	ug/L	1160	100	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
trans-1,3-Dichloropropene	ug/L	244	-	-	-	1 U	1 U	-	-	-	-	-	-	1 U	
Trichloroethene	ug/L	47	5	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Trichlorofluoromethane (CFC-11)	ug/L	110	1288	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Trifluorotrichloroethane (Freon 113)	ug/L	-	59375	RBC	-	1 U	1 U	-	-	-	-	-	-	1 U	
Vinyl chloride	ug/L	930	2	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	
Xylene (total)	ug/L	13	10000	MCL	-	1 U	1 U	-	-	-	-	-	-	1 U	

ANALYTICAL RESULTS SUMMARY
WATER TREATMENT SYSTEM
ALL DATA WITH CRITERIA SCREENING
GLENN SPRINGS HOLDINGS, INC.
DELAWARE CITY
JANUARY TO MARCH 2008

Sample Location:		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT		SYSTEM-EFFLUENT	
Sample ID:		WW 7462 013108 SYSTEM EFFLUENT		WW 7462 020508 SYSTEM EFFLUENT		GW-7462-020808-018		WW 7462 021308 SYSTEM EFFLUENT		WW 7462 022108 SYSTEM EFFLUENT		WW 7462 022808 SYSTEM EFFLUENT		WW 7462 030608 SYSTEM EFFLUENT	
Sample Date:		1/31/2008		2/5/2008		2/8/2008		2/13/2008		2/21/2008		2/28/2008		3/6/2008	
Parameters	Units	Ecological Criteria a	Federal MCLs or RBCs b	Criteria Type											
Metals															
Aluminum	ug/L	87	36500	RBC	-	-	8.8 U	-	-	-	-	-	-	-	-
Aluminum (Dissolved)	ug/L	87	36500	RBC	-	-	20.6 B	-	-	-	-	-	-	-	-
Antimony	ug/L	30	6	MCL	-	-	2.3 U	-	-	-	-	-	-	-	-
Antimony (Dissolved)	ug/L	30	6	MCL	-	-	2.3 U	-	-	-	-	-	-	-	-
Arsenic	ug/L	150	10	MCL	-	-	1.8 U	-	-	-	-	-	-	-	-
Arsenic (Dissolved)	ug/L	150	10	MCL	-	-	1.8 U	-	-	-	-	-	-	-	-
Barium	ug/L	438	2000	MCL	-	-	76.6 J	-	-	-	-	-	-	-	-
Barium (Dissolved)	ug/L	438	2000	MCL	-	-	116 J	-	-	-	-	-	-	-	-
Beryllium	ug/L	2.4	4	MCL	-	-	0.18 U	-	-	-	-	-	-	-	-
Beryllium (Dissolved)	ug/L	2.4	4	MCL	-	-	0.18 U	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.25	5	MCL	-	-	0.32 U	-	-	-	-	-	-	-	-
Cadmium (Dissolved)	ug/L	0.25	5	MCL	-	-	0.32 U	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	32800	-	-	-	-	-	-	-	-
Calcium (Dissolved)	ug/L	-	-	-	-	-	33500	-	-	-	-	-	-	-	-
Chromium Total	ug/L	11	100	MCL	-	-	1.5 J	-	-	-	-	-	-	-	-
Chromium Total (Dissolved)	ug/L	11	100	MCL	-	-	0.92 B	-	-	-	-	-	-	-	-
Cobalt	ug/L	23	730	RBC	-	-	61.9 ^a	-	-	-	-	-	-	-	-
Cobalt (Dissolved)	ug/L	23	730	RBC	-	-	63.6 ^a	-	-	-	-	-	-	-	-
Copper	ug/L	9	1460	RBC	1.8	2.9	1.1 B	3.1	0.87 U	0.93	2.2				
Copper (Dissolved)	ug/L	9	1460	RBC	-	-	1.0 J	-	-	-	-	-	-	-	-
Iron	ug/L	320	10950	RBC	-	-	83.7 J	-	-	-	-	-	-	-	-
Iron (Dissolved)	ug/L	320	10950	RBC	-	-	74.6 B	-	-	-	-	-	-	-	-
Lead	ug/L	2.5	-	-	-	-	1.4 U	-	-	-	-	-	-	-	-
Lead (Dissolved)	ug/L	2.5	-	-	-	-	1.4 U	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	22000	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	ug/L	-	-	-	-	-	22200	-	-	-	-	-	-	-	-
Manganese	ug/L	1300	730	RBC	-	-	7270 ^{uo}	-	-	-	-	-	-	-	-
Manganese (Dissolved)	ug/L	1300	730	RBC	-	-	7500 ^{uo}	-	-	-	-	-	-	-	-
Mercury	ug/L	0.77	2	MCL	0.34	0.33	0.15 J	0.34	0.57	-	0.46				
Mercury (Dissolved)	ug/L	0.77	2	MCL	-	-	0.10 U	-	-	-	-	-	-	-	-
Nickel	ug/L	52	730	RBC	-	-	7.7 J	-	-	-	-	-	-	-	-
Nickel (Dissolved)	ug/L	52	730	RBC	-	-	11.8 J	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	1150000	1310000	1440000	1310000	1520000	1370000	1320000				
Potassium (Dissolved)	ug/L	-	-	-	-	-	1470000	-	-	-	-	-	-	-	-
Selenium	ug/L	4.6	50	MCL	-	-	5.4 ^a	-	-	-	-	-	-	-	-
Selenium (Dissolved)	ug/L	4.6	50	MCL	-	-	4.2 J	-	-	-	-	-	-	-	-
Silver	ug/L	0.36	183	RBC	-	-	1.7 B ^a	-	-	-	-	-	-	-	-
Silver (Dissolved)	ug/L	0.36	183	RBC	-	-	2.1 B ^a	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	1160000	-	-	-	-	-	-	-	-
Sodium (Dissolved)	ug/L	-	-	-	-	-	1180000	-	-	-	-	-	-	-	-
Thallium	ug/L	6	2	MCL	-	-	2.3 U	-	-	-	-	-	-	-	-
Thallium (Dissolved)	ug/L	6	2	MCL	-	-	2.6 J ^u	-	-	-	-	-	-	-	-
Vanadium	ug/L	12	37	RBC	-	-	0.89 U	-	-	-	-	-	-	-	-
Vanadium (Dissolved)	ug/L	12	37	RBC	-	-	0.89 U	-	-	-	-	-	-	-	-
Zinc	ug/L	118.1	10950	RBC	-	-	3.9 U	-	-	-	-	-	-	-	-
Zinc (Dissolved)	ug/L	118.1	10950	RBC	-	-	9.5 B	-	-	-	-	-	-	-	-

Notes:
B - Not detected substantially above the level reported in laboratory or field blanks.
J - Estimated concentration.
K - High bias.
U - Not present at or above the associated value.
- Not analyzed.

GROUNDWATER TREATMENT DAILY LOG SHEET

page 1 of 2

Date	Tech Initials	WL 1 Filter Feed Pump Discharge Pressure (psig)	Plant Area Filter Feed Pump Discharge Pressure (psig)	Columbia Well Water Level (<0')*	Columbia Well Pump On / Off*	Plant Area Bag Filter DP	WL 1 Bag Filter DP	Collection Trench Water Level (<8')*	Collection Trench Flow Totalizer
1/2/08	CAD	10	18	-5.7	ON	3.4	8.3	7.5	6679.21
1/3/08	CAD	9	14	-5.6	ON	9.3	8.1	7.5	6688.00
1/4/08	CAD	8	12	-5.5	ON	.2	0	7.5	6696.82
1/5/08	CAD	8	12	-5.7	ON	.6	0	7.5	6704.29
1/7/08	CAD	8	15	-5.7	ON	1.7	.2	7.5	6720.66
1/8/08	CAD	8	18	-5.7	ON	3.0	.7	7.5	6729.65
1/9/08	CAD	8	19	-5.6	ON	2.5	.5	7.5	6737.44
1/10/08	CAD	8	19	-5.7	ON	1.0	1.3	7.5	6744.82
1/11/08	CAD	8	14	-5.7	ON	8.5	2.3	7.5	6754.11
1/14/08	CAD	9	10	-5.5	ON	.20	4.1	7.5	6775.9
1/15/08	CAD	10	9	-5.7	ON	.30	4.8	7.5	6784.67
1/16/08	CAD	11	12	-5.6	ON	4.0	4.6	7.5	6791.15
1/17/08	CAD	12	15	-5.8	ON	2.2	7.8	7.5	6798.09
1/18/08	CAD	11	14	-5.6	ON	3.6	8.1	7.5	6805.00
1/19/08	CAD	12	14	-5.7	ON	3.8	9.3	7.5	6813.12
1/21/08	CAD	10	12	-5.6	ON	2.7	10.2	7.5	6828.50
1/22/08	CAD	18	18	-5.6	ON	.2	0	6.5	6836.56
1/23/08	CAD	8	12	-5.6	ON	8.6	0	7.5	6844.10
1/24/08	CAD	8	15	-5.6	ON	6.6	0	7.5	6852.08
1/25/08	CAD	8	22	-5.6	ON	9.8	0	7.5	6863.50
1/28/08	CAD	8	31	-5.6	ON	8.5	1.0	7.5	6879.94
1/29/08	CAD	9	22	-5.8	ON	8.8	1.8	7.5	6888.10
1/30/08	CAD	10	21	-5.6	ON	8.4	1.7	7.5	6893.68
1/31/08	CAD	15	24	-5.6	ON	2.4	3.6	7.4	6900.97
2/1/08	CAD	8	19	-5.5	ON	3.6	.4	7.3	6920.77
2/2/08	RL	9	20	-5.5	ON	4.3	.9	7.3	6930.77
2/4/08	CAD	10	24	-5.7	ON	8.5	2.8	7.3	6968.48
2/5/08	CAD	17	30	-5.5	ON	4.0	9.2	7.3	6976.91
2/6/08	RL	14	27	-5.6	ON	9.9	10.2	7.3	6988.90
2/7/08	CAD	15	28	+5.6	OFF	9.7	10.3	7.3	7002.58
2/8/08	CAD	18	18	5.8	OFF	3.2	10.0	7.3	7011.87

GROUNDWATER TREATMENT DAILY LOG SHEET

[illegible]

GROUNDWATER TREATMENT DAILY LOG SHEET

page 1 of 2

Date	Tech Initials	WL 1 Filter Feed Pump Discharge Pressure (psig)	Plant Area Filter Feed Pump Discharge Pressure (psig)	Columbia Well Water Level (<0')*	Columbia Well Pump On / Off*	Plant Area Bag Filter DP	WL 1 Bag Filter DP	Collection Trench Water Level (<8')*	Collection Trench Flow Totalizer
2/11/08	RL	16	19	5.50	off	7.80	2.20	7.3	7042.60
2/12/08	RL	18	20	5.60	off	10.20	0.80	7.3	7051.88
2/13/08	CAW	9	41	-5.5	ON	9.7	1.0	7.3	7062.08
2/14/08	CAW	10	38	-5.5	ON	8.6	3.9	7.3	7072.83
2/15/08	CAW	14	43	-5.5	ON	8.4	2.7	7.3	7083.77
2/18/08	RL	12	41	-5.5	ON	10.5	2.8	7.3	7117.57
2/19/08	RL	13	42	-5.5	ON	16.2	4.8	7.3	7128.56
2/20/08	RL	14	35	-5.5	ON	2.6	8.5	6.8	7149.59
2/21/08	RL	18	42	-5.5	ON	6.3	8.7	6.8	7161.11
2/22/08	RL	16	40	-5.5	ON	1.6	6.8	7.0	7178.10
2/23/08	RL	17	53	-5.6	ON	13.8	9.5	7.4	7218.79
2/26/08	CAW	18	55	5.8	OFF	18.2	9.7	7.3	7229.46
2/27/08	CAW	18	55	5.9	OFF	14.5	9.7	7.3	7238.06
2/28/08	CAW	18	55	-4.3	ON	15.4	9.9	7.1	7248.08
2/29/08	CAW	17	47	-5.7	ON	7.6	0	7.0	7264.82
3/1/08	CAW	17	48	-5.5	ON	11.6	0	7.3	7280.92
3/3/08	CAW	8	54	-5.6	ON	11.5	.6	7.2	7305.79
3/4/08	CAW	10	47	-5.5	ON	14.3	2.1	7.2	7310.45
3/5/08	CAW	12	48	-5.5	ON	18.3	4.7	7.3	7313.08
3/6/08	CAW	5	53	-5.8	ON	12.00	0	7.0	7321.91
3/7/08	CAW	8	47	-5.8	OFF	9.9	0	7.0	7154.9 *
4/3/08	CAW	11	20	-5.4	ON	1.2	1.0	7.6	7156.2
4/4/08	RL	8	22	-5.8	ON	16.1**	0.2	6.6	7.373.3
4/7/08	RL	8	20	-10.0	ON	1.2	0.4	6.3	8,295.5
4/8/08	CAW	8	20	-10.0	ON	3.2	.6	6.3	8,596.7
4/9/08	CAW	8	25	-9.9	ON	5.9	.6	6.3	8,927.0
4/10/08	RL	8	24	-10.3	ON	7.9	3.4	6.2	9,228.8
4/11/08	RL	8	20	-10.0	ON	0.6	6.3	6.2	9,537.1
4/14/08	CAW	8	36	-10.0	ON	10.8	1.0	6.4	10,400.8
4/15/08	CAW	9	28	-10.0	ON	.6	.9	6.4	10,666.3
4/16/08	CAW	9	33	-10.0	ON	5.4	2.6	6.4	10,947.5

GROUNDWATER TREATMENT DAILY LOG SHEET

page 2 of 2

Date	Tech Initials	Notes / Comments
2/15/08	CAD	Drained approx. 1 gal. of DNAPL from Waste Lake I Tank in ground H ₂ O bldg. and 25 gals of Waste Lake I Tank H ₂ O.
2/20/08	RD	REPLACED 4 FILTERS PLANT AIR BAGS
2/28/08	CADRS	Changed out all 6 sock filters in Ground H ₂ O Bldg. CADRS
3/5/08	CAD	Shut down ground H ₂ O system for work on discharge piping on west wall inside ground H ₂ O bldg.
3/12/08	CAD	Changed out carbon in carbon Bed A. Old carbon was spent.
3/17/08	CAD	0740 Ground H ₂ O shut down per leak in carbon bed A tank
3/17/08	CAD	* Changed from Honeywell to new control system is the reason for all changes in the totalizer numbers!
4-3-08	CAD	1500 hrs. started up ground H ₂ O system; Columbia well pump, Waste Lake 1 pump & PH adj. tank pump. carbon bed B is dead. carbon bed A is secondary pump. collection trench pump running. Having a problem getting discharge valve on PH adj. pump & waste lake 1 pump to open - there is a problem with the logic.
4-3-08	CAD	1545 started up ground H ₂ O system & running O.K.
4-3-08	CAD	Changed out all 6 sock filters in ground H ₂ O bldg. before starting system up.
4-4-08	CADRS	** Changed out all 4 Plant Area Bay filters - pressure drop was 16.1
4-10-08	RH/CAD	Changed out Plant AREA Bays filters - pressure dropped was 7.9
4-11-08	CAD	Changed out both waste lake I filter bags in ground H ₂ O bldg. pressure drop above 10.
4-14-08	CAD	Changed out all 4 plant area sock filters in ground H ₂ O Bldg. 0800 CAD
4-16-08	CAD	0835 Shut down Waste Lake I pump & PH Tank Pump for maint. to check impeller in PH Tank pump. Cleaned PH tank pump screen - CAD
4-16-08	CAD	0935 Started up PH TK. pump & Waste Lake I Tank Pump CAD
4-16-08	CAD	0945 Changed out all 4 Plant Area Bay filters press. drop was 2.7 & changed out both Waste Lake I Bay filters; press. drop was 2.6

ATTACHMENT D

INSPECTION REPORT FORM WASTE LAKE 1 LANDFILL

Occidental Chemical Corporation
Delaware City, Delaware

Date of Inspection 03/31/08 Time 1435 hrs

Inspector's name/title: JACK ARMSTRONG / ENVIRONMENTAL MANAGER

1. Security

- A. Condition of Security Fence around Waste Lake 1?
Secure?

Yes ☒ No ☐

Comments:

2. Landfill Cover Integrity

- A. Visual inspection of cover integrity
Local Subsidence?

Yes ☐ No ☒

Comments:

- B. Visual inspection for erosion
Soil/vegetation condition ok?

Yes ☒ No ☐

Comments:

3. Water Management

- A. Visual inspection of run-on/run-off control system

Local ponding on cover?

Yes ☐ No ☒

Comments:

- B. Visual inspection of drainage pathways.
Sediment accumulation in swales and drainage pipes?

Yes ☐ No ☒

Comments:

4. Monitoring Wells

- A. Visual inspection of monitoring wells

Monitoring wells in good condition?

Yes ☒ No ☐

Comments:

5. Gas Monitoring Stations

- A. Visual reading of the gas monitoring station pressure.
(differential pressures in excess of 5 inches water
column must be reported immediately to EPA)

Station #1

Station #2

Station #3

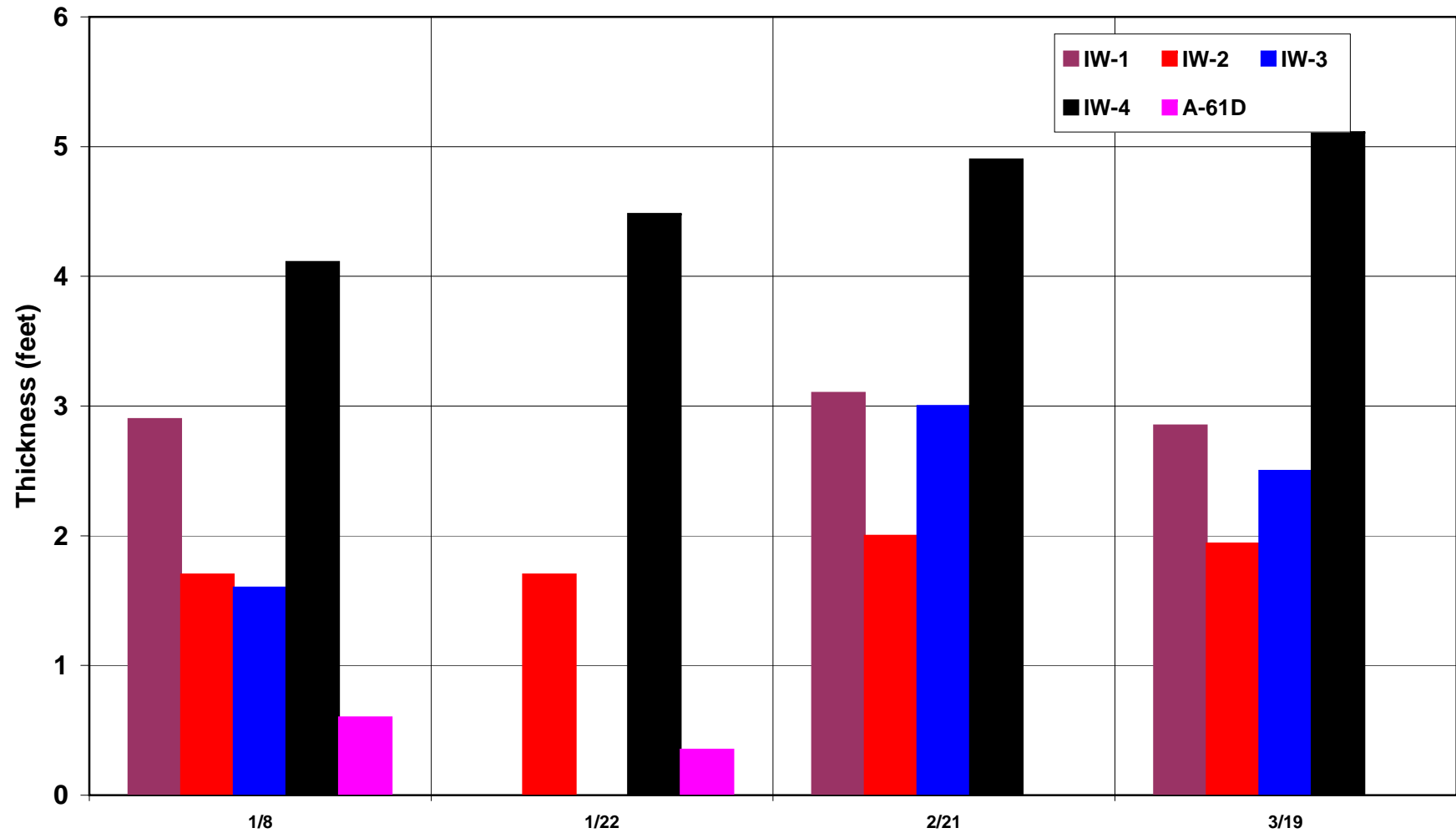
Station #4

0
0
0
0

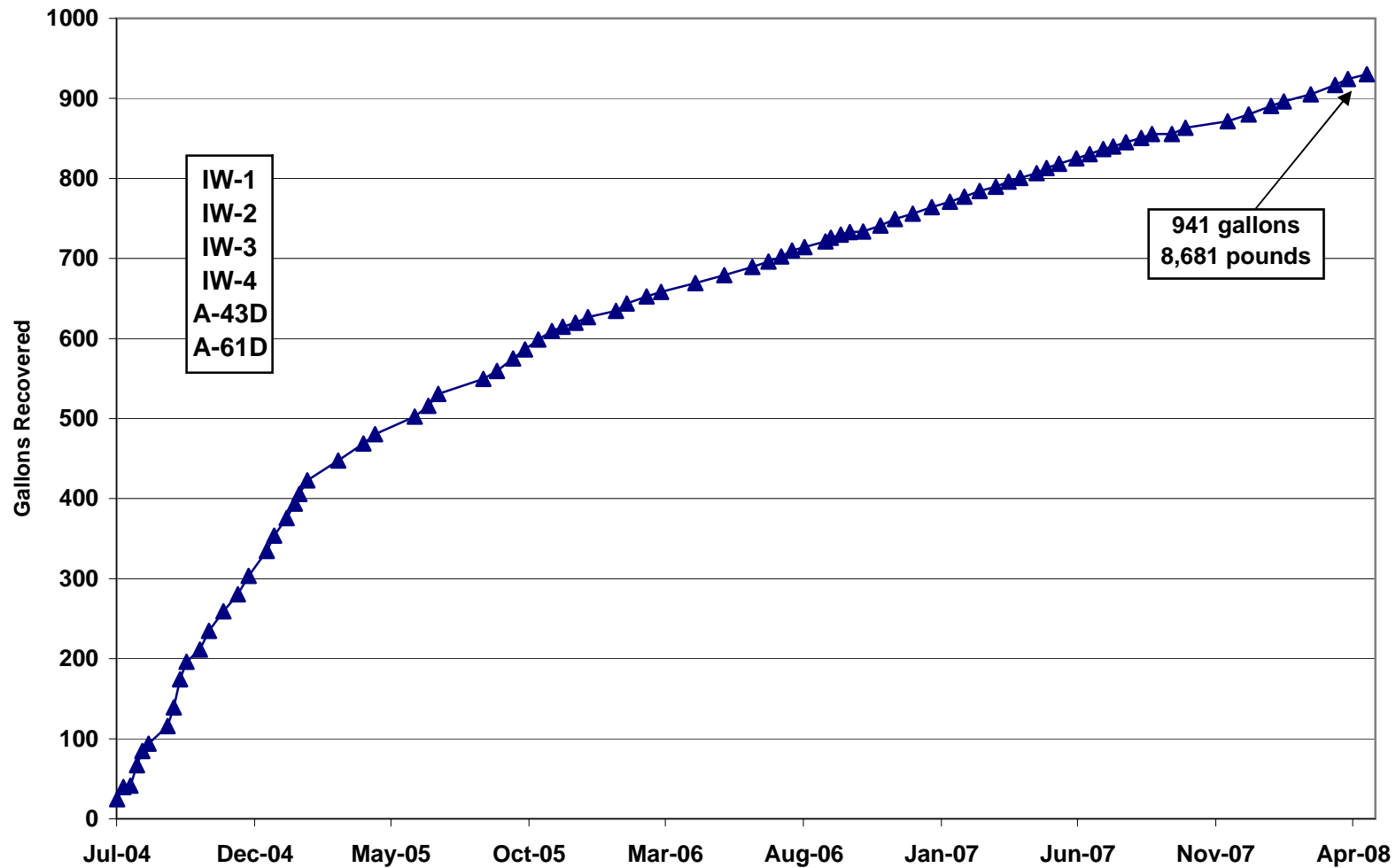
Comments:

ATTACHMENT E

DNAPL Thickness Measurements
January - March 2008
OxyChem, Delaware City, Delaware

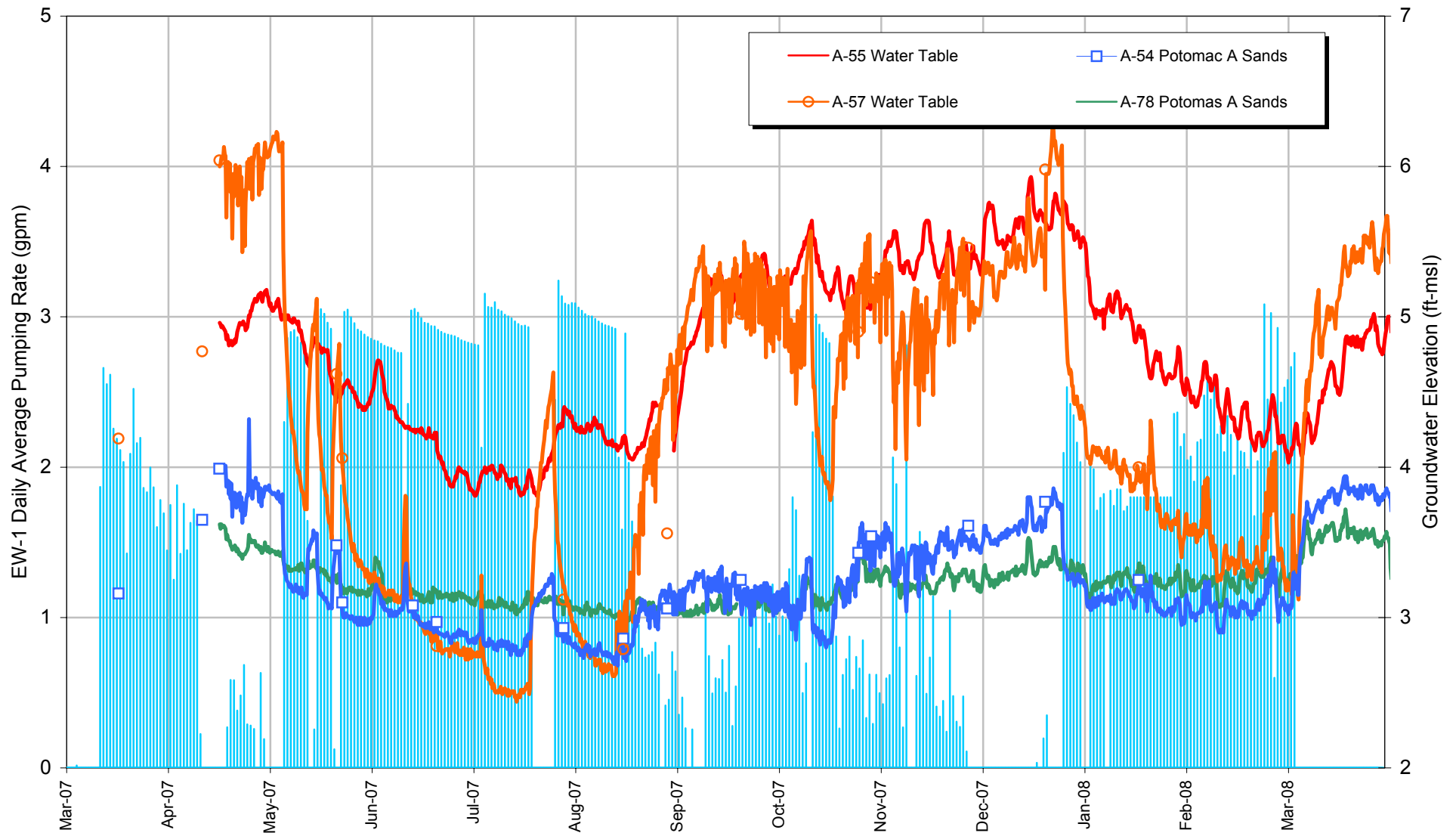


CUMULATIVE DNAPL RECOVERY
All Wells through March 2008
OxyChem, Delaware City, Delaware



ATTACHMENT F

Attachment F **WL-1 Hydrographs** **OxyChem, Delaware City, Delaware**



Note: Points are hand water level measurements
 Lines are data from electronic level recorders
 Vertical blue lines are daily average pumping rates for EW-1

ATTACHMENT G

FORMER LAYDOWN AREA

SILT FENCE INSPECTION

Site: Occidental Chemical Corporation
Delaware City Plant
1657 River Road
New Castle, DE 19720

Date: 01/31/2008 Time: 1400 HRS

Inspector: Name: Jack Armstrong
Title: Environmental Supervisor

Weather & Ground Conditions:

Sun/ Cloud/ Rain, etc: Partly Sunny
Ground/ Wet/ Dry, etc: Dry

Silt Fence Conditions Good condition. No gaps or breaks.

Comments or Additional Observations: None

Recommended Corrective Action: None

Action Taken:

By:

Date:

FORMER LAYDOWN AREA

SILT FENCE INSPECTION

Site: Occidental Chemical Corporation
Delaware City Plant
1657 River Road
New Castle, DE 19720

Date: 02/29/2008 Time: 1300 HRS

Inspector: Name: Jack Armstrong
Title: Environmental Supervisor

Weather & Ground Conditions:

Sun/ Cloud/ Rain, etc: Partly Sunny
Ground/ Wet/ Dry, etc: Dry

Silt Fence Conditions Good condition. No gaps or breaks.

Comments or Additional Observations: None

Recommended Corrective Action: None

Action Taken:

By:

Date:

FORMER LAYDOWN AREA

SILT FENCE INSPECTION

Site: Occidental Chemical Corporation
Delaware City Plant
1657 River Road
New Castle, DE 19720

Date: 03/31/2008 Time: 1130 HRS

Inspector: Name: Jack Armstrong
Title: Environmental Supervisor

Weather & Ground Conditions:

Sun/ Cloud/ Rain, etc: Partly Cloudy
Ground/ Wet/ Dry, etc: Dry

Silt Fence Conditions Good condition. No gaps or breaks.

Comments or Additional Observations: None

Recommended Corrective Action: None

Action Taken:

By:

Date:

WASTE LAKE 3 CAP AREA

Site: (include Address/Owner)

Occidental Chemical CorporationDelaware City Plant1657 River RoadNew Castle, DE 19720Date: 03/31/2008Time: 1135 hoursInspector: Name: Jack ArmstrongTitle: Environmental Supervisor

Weather & Ground Conditions:

Sun/ Cloud/ Rain, etc: Wind; 10-15 mphGround/ Wet/ Dry, etc: Dry

Cap Area Conditions

No subsidence of the cap. No animal burrows, ponding, erosion,Grass appears healthy.

Comments or Additional Observations:

Wind blown debris on cap

Recommended Corrective Action:

Debris is scheduled to be collected

Action Taken:

By: Jack ArmstrongDate: 03/31/2008

OLD BRINE SLUDGE LANDFILL CAP AREA

Site: (include Address/Owner)

Occidental Chemical Corporation
Delaware City Plant
1657 River Road
New Castle, DE 19720

Date: 03/31/2008Time: 1145 hrsInspector: Name: Jack ArmstrongTitle: Environmental Supervisor

Weather & Ground Conditions:

Sun/ Cloud/ Rain, etc: Windy; 10-15 mph

Ground/ Wet/ Dry, etc: _____

OBSL Cap Area Conditions

No subsidence of cap. No animal borrows observed.No erosion observed. Grass appears healthy.

Comments or Additional Observations:

The grass is thin and/or gone in some areasWind blown debris on cap

Recommended Corrective Action:

Re-seeding in needed areas scheduledDebris is scheduled for pick-up.

Action Taken:

By: Jack ArmstrongDate: 03/31/2008

STORM SEWER INSPECTION LOG

Site: (include Address/Owner)

Occidental Chemical Corporation
Delaware City Plant
1657 River Road
New Castle, DE 19720

Date: 03/31/2008Time: 0930 hoursInspector: Name: Jack ArmstrongTitle: Environmental Supervisor

Weather & Ground Conditions:

Sun/ Cloud/ Rain, etc: Wind;10-15 mph
Ground/ Wet/ Dry, etc: _____

Storm Sewer Conditions: Minor debris observed at the East end of the North and South Ditches.Comments or Additional Observations: NoneRecommended Corrective Action: Remove debris and replaced oil boomsAction Taken: By: Jack ArmstrongDate: 04/08/2008

ATTACHMENT H



Occidental Chemical Corporation OxyChem.
A subsidiary of Occidental Petroleum Corporation

1657 River Road
New Castle, Delaware 19720-5194
Phone 302.834.3800 Fax 302.834.3987

April 9, 2008

CERTIFIED MAIL -- RETURN RECEIPT REQUESTED

Mr. Eric Trinkle
Department of Natural Resources and Environmental Control
Division of Air and Waste Management
89 Kings Highway
Dover, DE 19901

RE: DED003913266, Post-Closure Permit No. HW04A09

Dear Mr. Trinkle:

Attached are inspection report forms for the closed new brine sludge impoundment areas as required by Section 6.0 (Post-Closure Inspections) of our permit. These forms cover inspections made in January, February and March 2007.

The leachate collection sump was not vacuumed during the first quarter of 2008.

If you have any questions please call me on 302-834-3831.

Sincerely,



Jack Armstrong
Environmental Manager

Enc.

CC: Rick Passmore - GSH
John Garges - CRA

**APPENDIX H
INSPECTION REPORT FORM
NEW BRINE SLUDGE LANDFILL**

Occidental Chemical Corporation
Delaware City, Delaware

Date of Inspection 01-31-08 Time 1600

Inspector's name/title: Jack Armstrong / Environmental manager

1. Security

A. Condition of Security Fence around NBSL?

Secure?

Yes ☒ No ☐

Comments:

2. Landfill Cover Integrity

A. Visual inspection of cover integrity

Local Subsidence?

Yes ☐ No ☒

Comments:

B. Visual inspection for erosion

Soil/vegetation condition ok?

Yes ☒ No ☐

Comments:

3. Water Management

A. Visual inspection of run-on/run-off control system

Local ponding on cover?

Yes ☐ No ☒

Comments:

B. Visual inspection of drainage pathways.

Sediment accumulation in swales and drainage pipes?

Yes ☐ No ☒

Comments:

4. Visual inspection of leachate collection sump.

Leachate present in sump?

Yes ☒ No ☐

Comments:

Level = 115"

5. Monitoring Wells

A. Visual inspection of monitoring wells.

Monitoring wells in good condition?

Yes ☒ No ☐

Comments:

APPENDIX H
INSPECTION REPORT FORM
NEW BRINE SLUDGE LANDFILL

Occidental Chemical Corporation
Delaware City, Delaware

Date of Inspection 02.29.08 Time 1430

Inspector's name/title: Jack Armstrong / Environmental manager

1. Security

- A. Condition of Security Fence around NBSL?
Secure?

Yes ☒ No ☐

Comments:

2. Landfill Cover Integrity

- A. Visual inspection of cover integrity
Local Subsidence?

Yes ☐ No ☒

Comments:

- B. Visual inspection for erosion

Soil/vegetation condition ok?

Yes ☒ No ☐

Comments:

3. Water Management

- A. Visual inspection of run-on/run-off control system
Local ponding on cover?

Yes ☐ No ☒

Comments:

- B. Visual inspection of drainage pathways.

Sediment accumulation in swales and drainage pipes?

Yes ☐ No ☒

Comments:

4. Visual inspection of leachate collection sump.

Leachate present in sump?

Yes ☒ No ☐

Comments:

Level = 114.5"

5. Monitoring Wells

- A. Visual inspection of monitoring wells.

Monitoring wells in good condition?

Yes ☒ No ☐

Comments:

**APPENDIX H
INSPECTION REPORT FORM
NEW BRINE SLUDGE LANDFILL**

Occidental Chemical Corporation
Delaware City, Delaware

Date of Inspection 03/31/08 Time 1400 hrs

Inspector's name/title: Jack ARMSTRONG / ENVIRONMENTAL manager

1. Security

- A. Condition of Security Fence around NBSL?
Secure? _____
Comments: _____

Yes ☒ No ☐

2. Landfill Cover Integrity

- A. Visual inspection of cover integrity
Local Subsidence? _____
Comments: _____

Yes ☐ No ☒

- B. Visual inspection for erosion
Soil/vegetation condition ok? _____
Comments: _____

Yes ☒ No ☐

3. Water Management

- A. Visual inspection of run-on/run-off control system
Local ponding on cover? _____
Comments: _____

Yes ☐ No ☒

- B. Visual inspection of drainage pathways.
Sediment accumulation in swales and drainage pipes? _____
Comments: _____

Yes ☐ No ☒

4. Visual inspection of leachate collection sump.
Leachate present in sump? _____
Comments: _____

Yes ☒ No ☐

Level = 109.5"

5. Monitoring Wells

- A. Visual inspection of monitoring wells.
Monitoring wells in good condition? _____
Comments: _____

Yes ☒ No ☐

ARRANGED for a vacuum truck
to pump out sump.